ST-S444ESX/S700ES

SERVICE MANUAL

ST-S444ESX:
E Model

REVISED

Discard ST-S444ESX SERVICE MANUAL (No. 9-952-349-11) previously issued.

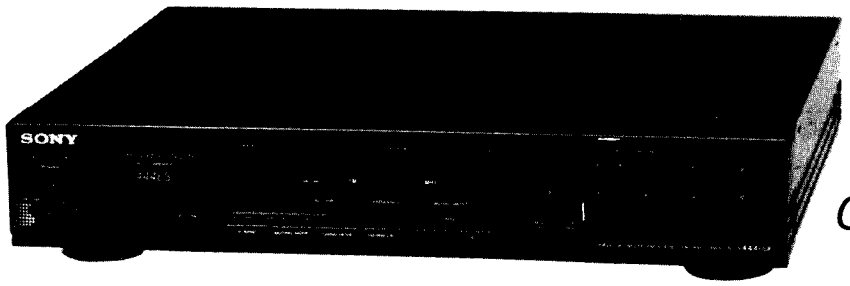

Photo: ST-S444ESX

ST-S700ES:
US Model
Canadian Model
AEP Model
UK Model

SPECIFICATIONS

FM tuner section

Tuning range 87.5 MHz - 108 MHz
Antenna terminals
75 ohms, unbalanced
Intermediate frequency
10.7 MHz

	AEP, G-AEP, UK, E model (at 40 kHz deviation)	US, Canadian model (at 75 kHz deviation)
Sensitivity	at 46 dB quieting 17.3 dBf, 2μV (mono) 37.9 dBf, 22.5μV (stereo)	at 50 dB quieting 16.8 dBf, 1.8μV (mono) 37.9 dBf, 22.5μV (stereo)
Usable sensitivity	10.3 dBf, 0.9μV (IHF) 1.6μV (S/N = 26 dB)	10.3 dBf, 0.9μV (IHF)
Signal-to-noise ratio	90 dB (mono) 85 dB (stereo)	96 dB (mono) 91 dB (stereo)
Harmonic distortion at 1 kHz	WIDE 0.006% (mono) 0.01% (stereo) NARROW 0.04% (mono) 0.07% (stereo)	WIDE 0.005% (mono) 0.0095% (stereo) NARROW 0.04% (mono) 0.07% (stereo)
IM distortion	WIDE 0.006% (mono) 0.01% (stereo) NARROW 0.04% (mono) 0.07% (stereo)	WIDE 0.005% (mono) 0.0095% (stereo) NARROW 0.04% (mono) 0.07% (stereo)
Separation at 1 kHz	65 dB (WIDE) 50 dB (NARROW)	
Frequency response	40 Hz - 12.5 kHz ±0.2 dB 30 Hz - 15 kHz $^{+0.2}_{-0.5}$ dB	
Selectivity	at 300 kHz 65 dB (NARROW) at 400 kHz 65 dB (WIDE)	

Capture ratio 1.0 dB (WIDE)
AM suppression ratio 65 dB
Image response ratio 80 dB
IF response ratio more than 120 dB
Spurious response ratio
more than 120 dB
RF intermodulation
83 dB (800 kHz)
Muting threshold Approx. 29 dBf, 8μV
Output level/impedance
at 75 kHz deviation
750 mV, 1 kilohm

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

FM STEREO/FM-AM TUNER

SONY®

MICROFILM

AUD

AM (MW/LW) tuner section (LW for AEP, G-AEP, UK model)

		AM (MW)	LW
Tuning range		531 - 1602 kHz (9 kHz step) 530 - 1610 kHz (10 kHz step)	153 - 344 kHz
Antenna		AM loop antenna	
		External antenna terminal	
Intermediate frequency		450 kHz	
Usable sensitivity	AM loop antenna	300μV/m (at 999 or 1,000 kHz)	700μV/m (at 230 kHz)
	External antenna	30μV (at 999 or 1,000 kHz)	200μV (at 230 kHz)
Signal-to-noise ratio		54 dB (50 mV/m)	
Harmonic distortion		0.3% (at 50 mV/m, 400 Hz)	
Selectivity		55 dB (9 kHz) 60 dB (10 kHz)	55 dB (9 kHz)

General

System PLL quartz-locked digital synthesizer system
FM stereo, FM/AM super-heterodyne tuner

Power requirements
US, Canadian model: 120 V AC, 60 Hz
AEP, G-AEP model: 220 V AC (or 240 V AC adjustable by authorized Sony personnel), 50/60 Hz
UK model: 240 V AC (or 220 V AC adjustable by authorized Sony personnel), 50 Hz
E model: 120, 220 or 240 V AC adjustable, 50/60 Hz

Power consumption
US, Canadian, E model: 17 watts
AEP, G-AEP, UK model: 18 watts

Dimensions Approx. 430 x 85 x 335 mm (w/h/d) (17 x 3 3/8 x 13 1/8 inches) including projecting parts and controls

Weight US, Canadian, AEP, G-AEP, UK model: Approx. 4.5 kg (9 lb 15 oz)
E model: Approx. 4.7 kg (10 lb 6 oz)

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FEATURES

Wave optimizer technology
The WOIS (Wave Optimized IF System) which makes the IF waveform optimum shape in stereo and monaural mode and the WODD (Wave Optimized Direct Detector) which forms the VCO oscillation waveform of the PLL detector ensure low distortion sound.

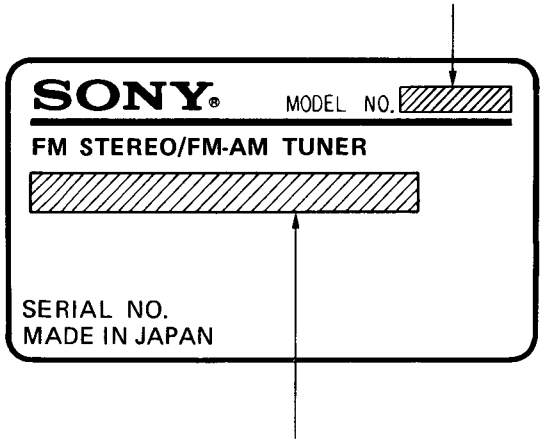
Direct comparator technology
An employed PLL IC allows the comparison frequency to be as high as the 100 kHz channel spacing frequency, thus eliminating the tendency of a low comparison frequency to slip into the audio range and degrade the signal-to-noise ratio.

Program function
Using the program function, you can automatically tune in up to four stations which have been memorized in any sequence you want. Stations will be received one by one as the power is turned on and off by an optional audio timer.

MODEL IDENTIFICATION

– Specification Label –

US, Canadian, AEP, G-AEP, UK model: ST-S700ES
E model: ST-S444ESX



US, Canadian model: AC 120 V 60 Hz 17 W
AEP, G-AEP model: AC 220 V 50/60 Hz 18 W
UK model: AC 240 V 50 Hz 18 W
E model: AC 120/220/240 V 50/60 Hz 17 W

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

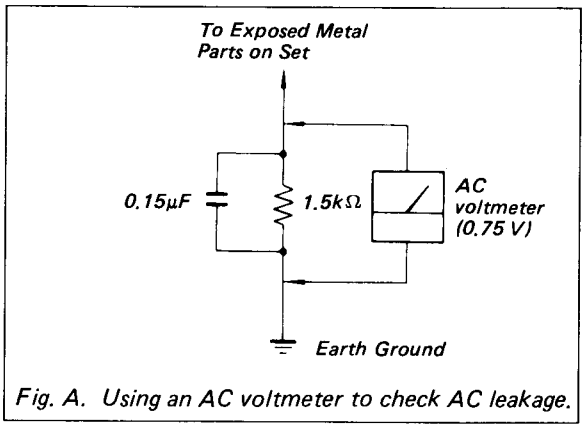
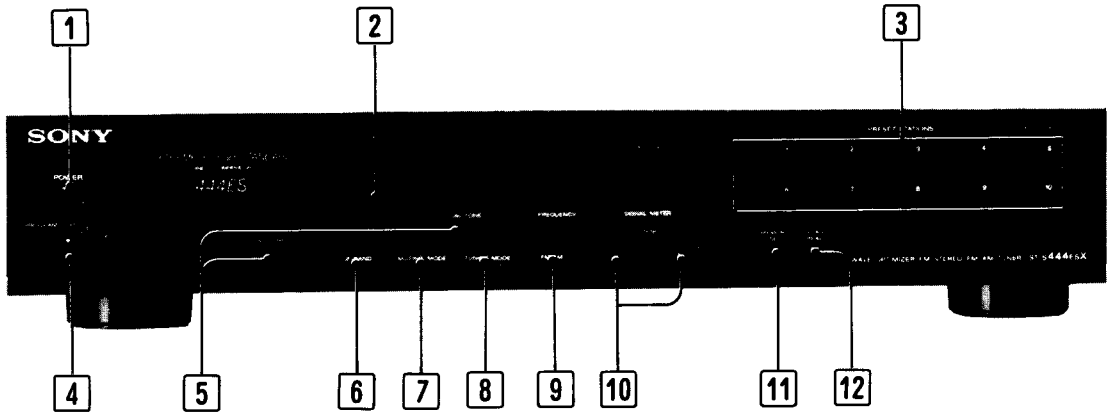


Fig. A. Using an AC voltmeter to check AC leakage.

FUNCTION OF CONTROLS

Front panel



1 POWER switch

2 SST (Super Sound Tracing) circuit indicator
Lights when the SST circuit activates.

3 Station preset buttons and indicators
Press the appropriate button to call up a memorized station.
The indicator of the called up station lights.

4 PROGRAM switch
OFF: Normally, keep this switch in this position.
SET: Set the switch to this position for program function.
LOCK: When the PROGRAM switch is set to this position, only the POWER switch is operative in order to prevent malfunction.

5 CAL TONE (calibrating tone) button and indicator
Press this button to obtain a 400 Hz, 50% modulated signal for adjusting the recording level on a cassette deck. The indicator lights when a 400 Hz calibrating tone signal is provided.
To deactivate the cal tone circuit, press the button again.

6 IF-BAND button
Press this button to select bandwidth of the intermediate frequency in FM reception.
Normally, set the button so that the NARROW indicator is not lit.

7 MUTING/MODE button
Normally, set this button so that the MUTING indicator is lit (on).
This button activates as a muting switch and a FM mode selector.
Press this button. The MUTING indicator lights and the muting circuit is activated to eliminate interstation noise while tuning so that the FM station is received in stereo mode.
To tune in a very weak FM station, press this button again. The MUTING indicator goes out and the muting circuit is deactivated so that the FM station is received in monaural mode.
In this case, be sure to keep the sound level of the connected amplifier down to avoid speaker damage caused by interstation noise during tuning.

8 TUNING MODE button
Automatic tuning: Press this button so that the AUTO indicator lights.
Manual tuning: Press the button again so that the AUTO indicator goes out.

9 Band selector
Press the button to select the desired band.
The selected band is shown in the display window.
US, Canadian, E model: FM and AM bands are provided.
AEP, G-AEP, UK model: FM, MW and LW bands are provided.

10 Tuning buttons
Press the – button to go to a lower frequency and the + button to go to a higher one.

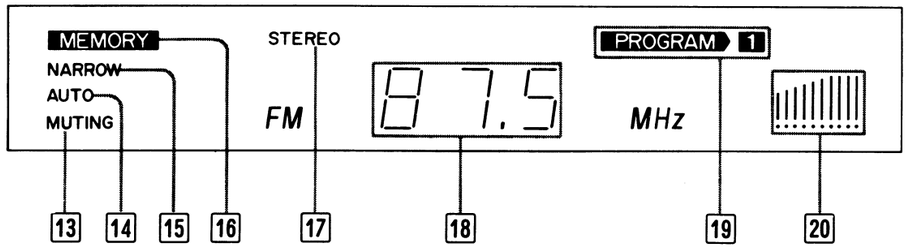
11 MEMORY/SET button

Setting of the PROGRAM switch	Function of the MEMORY/SET button
OFF	Works as a MEMORY button. Press this button to memorize the tuned station by using the station memory button. The MEMORY indicator illuminates for a few seconds.
SET	Works as a program SET button. Press this button to program the preset stations in the desired order. The MEMORY indicator illuminates for a few seconds.

12 SCAN/READ button

Setting of the PROGRAM switch	Function of the SCAN/READ button
OFF	Works as a memory SCAN button. Press this button to automatically scan the stations memorized on the station preset buttons.
SET	Works as a program READ button. Press this button. The programmed stations are received in order for a few seconds.

Display window



13 MUTING indicator
Lights when the MUTING/MODE button is pressed.

14 AUTO indicator
Lights when the automatic tuning is performed by using the TUNING MODE button.

15 NARROW indicator
Lights when the IF-BAND button is pressed to select the narrow band.

16 MEMORY indicator
Lights for a few seconds when the MEMORY/SET button is pressed.

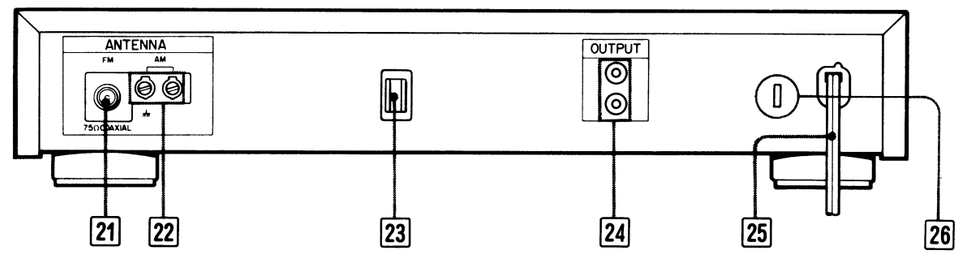
17 STEREO indicator
Lights when an FM stereo program of sufficient signal strength is tuned in with the MUTING/MODE button pressed. (This indicator does not light when the MUTING indicator is gone out.)

18 Frequency display window
Displays frequencies being received.

19 PROGRAM indicator
Lights when the PROGRAM switch is set either to SET or LOCK.
The number of the programmed station being received is displayed.

20 SIGNAL indicator
Indicates the signal strength of the station being received.

Rear panel



21 FM antenna connector

22 AM antenna terminals

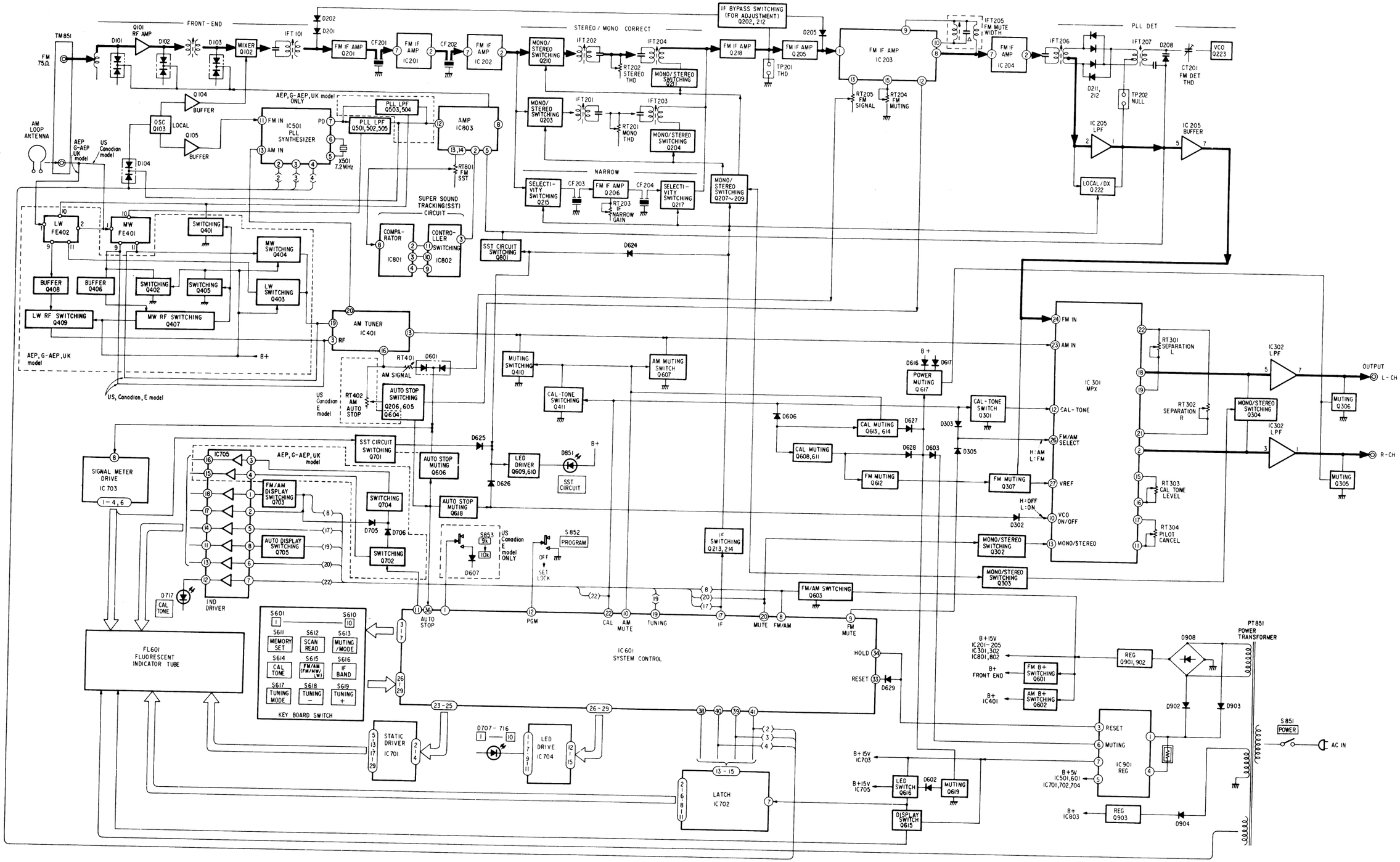
23 AM loop antenna holder
Use this holder to install the supplied AM loop antenna on the rear panel.

24 OUTPUT terminals
Connect to the TUNER input jacks of amplifier.

25 AC power cord

26 Voltage selector (E model only)

SECTION 1
BLOCK DIAGRAM

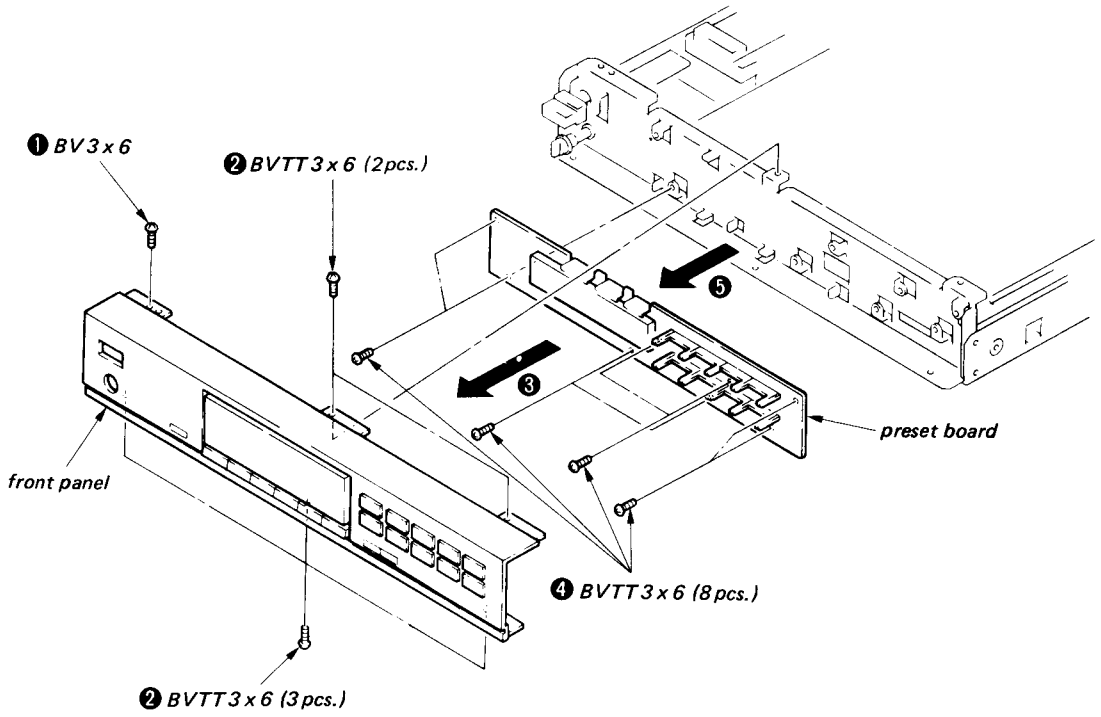


SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

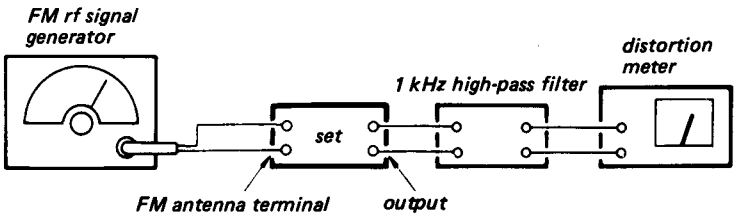
- Remove the top case.

Preset Board



SECTION 3
ADJUSTMENTS

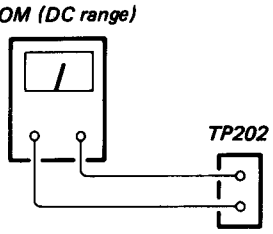
FM SECTION



	FM STEREO STANDARD SIGNAL	FM MONAURAL STANDARD SIGNAL
US, Canadian	*Carrier frequency: 98 MHz* *Moduration: Audio 1 kHz,* *33.75 kHz deviation (45%)* *Sub-channel 38 kHz,* *33.75 kHz deviation (45%)* *Pilot 19 kHz,* *7.5 kHz deviation (10%)*	*Carrier frequency: 98 MHz* *Modulation: 1 kHz, 75 kHz deviation (100%)*
AEP, G-AEP, UK, E	*Carrier frequency: 98 MHz* *Modulation: Audio 1 kHz,* *16.25 kHz deviation (40.6%)* *Sub-channel 38 kHz,* *16.25 kHz deviation (40.6%)* *Pilot 19 kHz,* *7.5 kHz deviation (18.8%)*	*Carrier frequency: 98 MHz* *Modulation: 1 kHz, 40 kHz deviation (100%)*

Phase Locked Loop Detect Adjustment

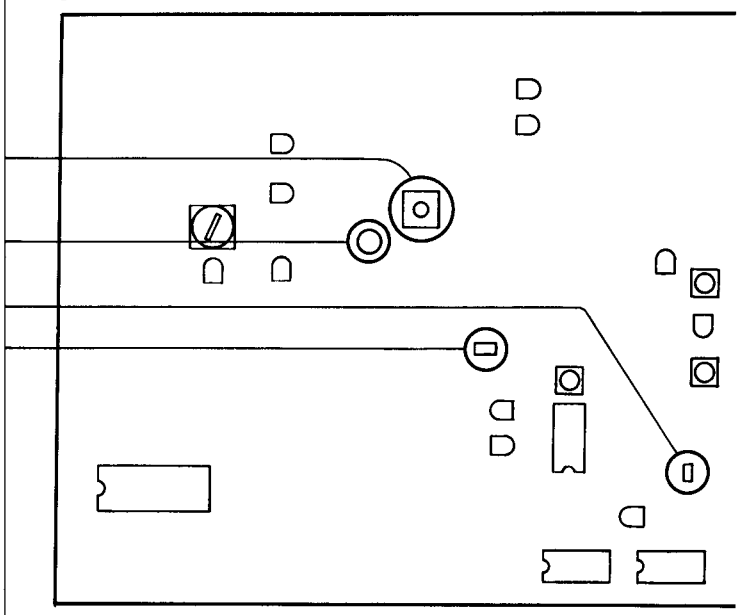
Receiving frequency: 98 MHz
IF BAND: WIDE
MUTING/MODE switch: OFF



1. Short-circuit TP201 to the ground.
2. Set the FM rf signal generator (monaural) output to 80 dBμ.
3. Adjust IFT207 for 0 V reading on VOM (TP202).
4. Adjust CT201 for the minimum distortion ratio.
5. Repeat the step 3 and 4 several times.
6. Remove the short-circuit of TP201.

– Tuner Board –

[COMPONENT SIDE]

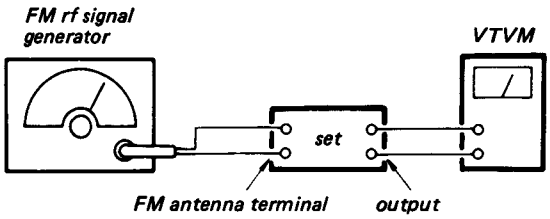


Muting Width Adjustment

Setting:

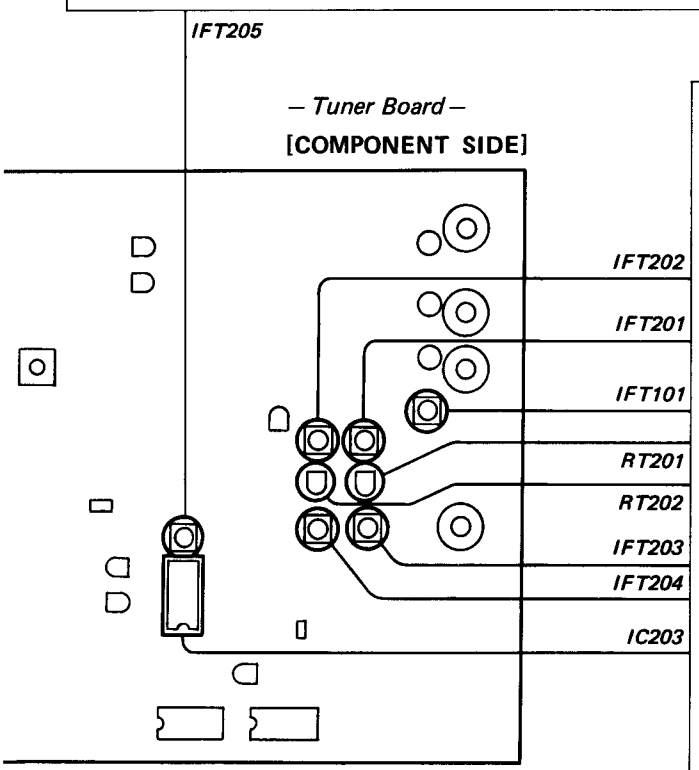
IF BAND:	WIDE
MUTING/MODE switch:	ON
Receiving frequency:	98 MHz

Procedure:



Carrier frequency: *98 MHz +50 kHz, -50 kHz*
Modulation: *AEP, G-AEP, UK, E Model: 1 kHz, 40 kHz deviation (100%)*
US, Canadian Model: 1 kHz, 75 kHz deviation (100%)
Output level: *10 mV (80 dB)*

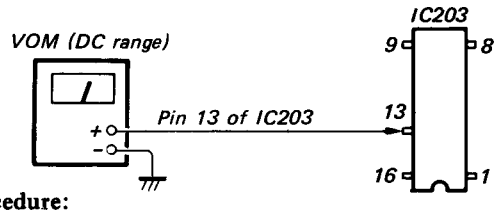
1. Increase the frequency of FM rf signal generator 50 kHz more than that of the receiving frequency and adjust IFT205 to obtain output.
2. Decrease the frequency of FM rf signal generator 50 kHz less than the receiving frequency and make sure to obtain output.
3. Repeat step 1 and 2, then adjust IFT205 to obtain output when increasing or decreasing the frequency of FM rf signal generator by the same amount.



IF Distortion Adjustment

Setting:

Recieving Frequency:	98 MHz
IF BAND:	WIDE
MUTING/MODE switch:	OFF



Procedure:

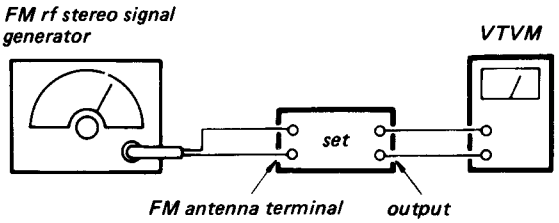
1. Turn RT201 and RT202 fully clockwise.
2. Set the signal generator (monaural) output to the weak (about 40 dBμ) and put off the MUTING/MODE switch. Then adjust IFT203 for the maximum reading on VOM.
3. Adjust IFT101 for the maximum reading on VOM.
4. Set the signal generator output to 80 dBμ.
5. Adjust IFT201 and RT201 alternately for the minimum distortion.
6. Set the signal generator output to the weak input (about 20 dBμ) and put on the MUTING/MODE switch. Then adjust IFT204 for the maximum reading on VOM.
7. Set the signal generator output to 80 dBμ at stereo modulation mode.
8. Adjust IFT202, RT202 alternately for the minimum distortion.

FM Stereo Separation Adjustment

Setting:

IF BAND: WIDE
MUTING/MODE switch: ON

Procedure:

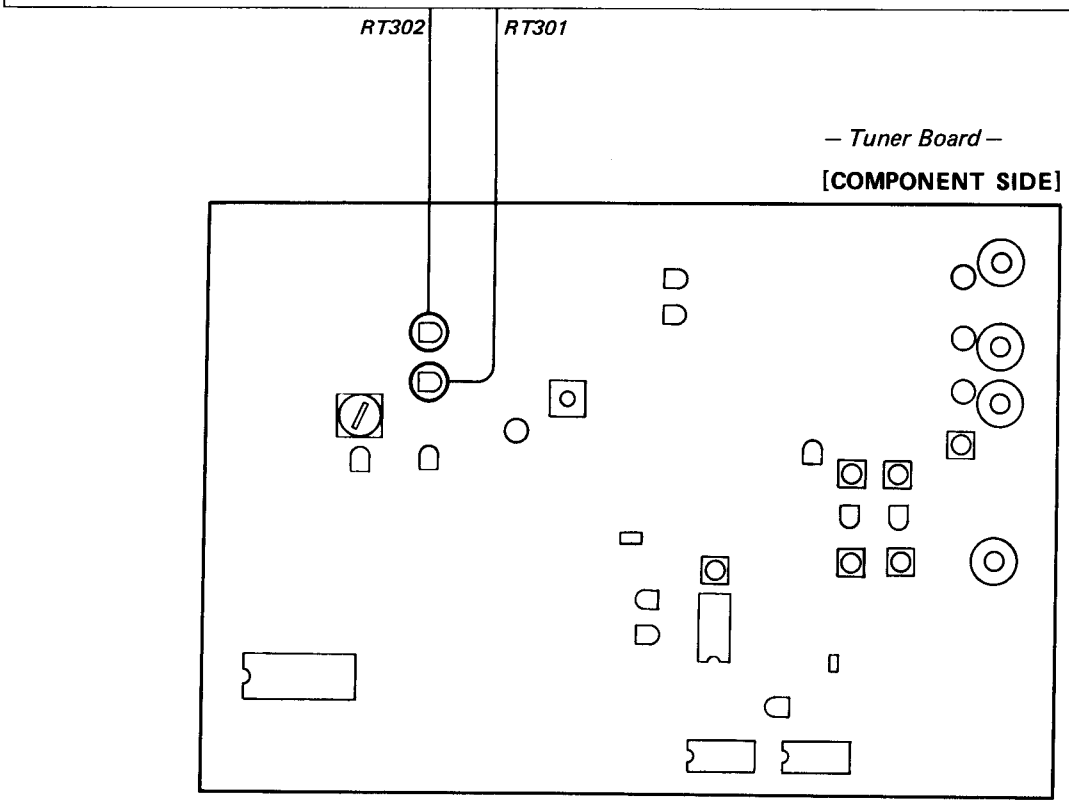


Carrier frequency: *98 MHz*
Output level: *10 mV (80 dB)*
Modulation: *Audio 1 kHz,*
AEP, G-AEP, UK, E Model:
16.25 kHz deviation (40.6%)
US, Canadian Model:
33.75 kHz deviation (45%)
Sub-channel 38 kHz,
AEP, G-AEP, UK, E Model:
16.25 kHz deviation (40.6%)
US, Canadian Model:
33.75 kHz deviation (45%)
Pilot 19 kHz, 7.5 kHz deviation
AEP, G-AEP, UK, E Model: (18.8%)
US, Canadian Model: (10%)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT301 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT302 for minimum reading.

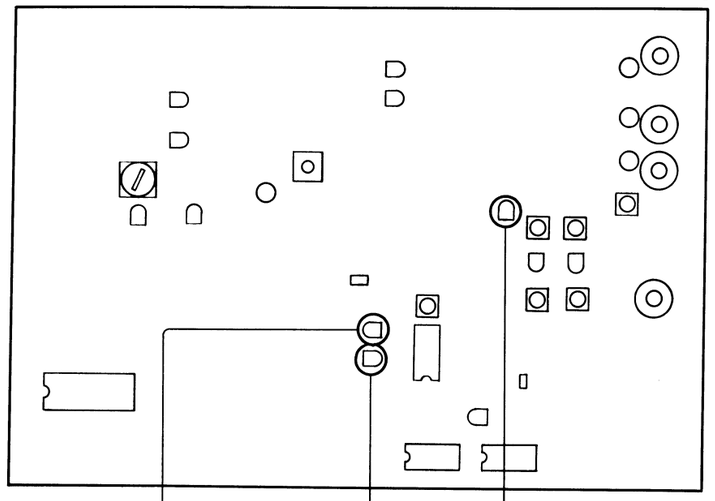
L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.



– Tuner Board –

[COMPONENT SIDE]

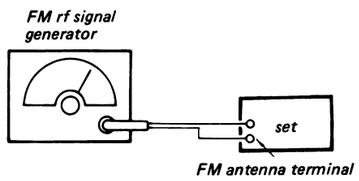


FM Meter Level Adjustment

Setting:

IF BAND: WIDE

Procedure:



Carrier frequency: *98 MHz*
Modulation: *US, Canadian Model: 1 kHz, 75 kHz deviation*
AEP, G-AEP, UK, E Model: 1 kHz, 40 kHz deviation
Output level: *315μV (50 dB)*

1. Tune the set to 98 MHz by pushing the TUNING (+, –) button.
2. Turn RT205 and stop it when the graduation 10 changes from turning off to on.

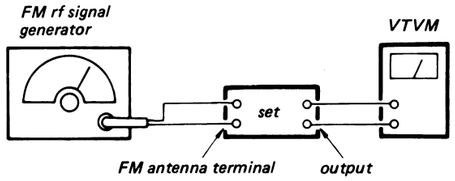
– Signal Indicator –

FM Muting Level Adjustment

Setting:

IF BAND: WIDE
MUTING/MODE switch: ON

Procedure:

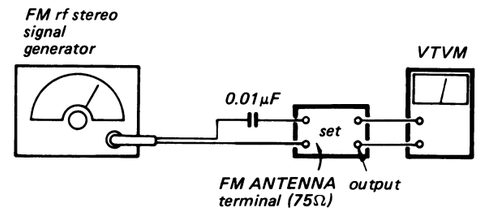


Carrier frequency: *98 MHz*
Modulation: *US, Canadian Model: 1 kHz, 75 kHz, 75 kHz deviation*
AEP, G-AEP, UK, E Model: 1 kHz, 40 kHz deviation
Output level: *12.6μV (22 dB)*

1. Tune the set to 98 MHz by pushing the TUNING (+, –) button.
2. Set IF BAND switch to WIDE.
3. Adjust RT204 for instantaneous 0 V reading on VTVM.
4. Set IF BAND switch to NARROW.
5. Adjust RT203 for instantaneous 0 V reading on VTVM.

Pilot Cancel Adjustment

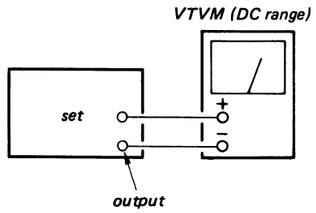
Procedure:



1. Tune the set to 98 MHz by pressing the TUNING (+, –) button and turn OFF the audio modulation of the FM rf stereo signal generator.
2. Adjust RT304 and L301 for minimum reading on the VTVM. Output level of both channels should be well balanced.

CAL TONE Level Adjustment

Setting:

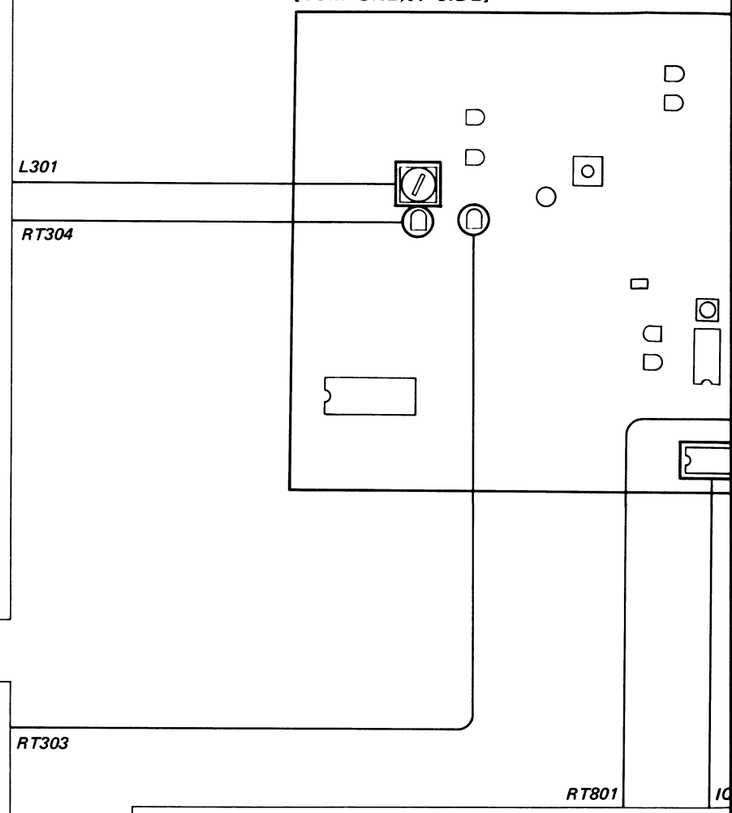


Procedure:

1. Press CAL TONE switch.
2. Adjust RT303 for –6 dB (0.39V) reading on VTVM.

– Tuner Board –

[COMPONENT SIDE]



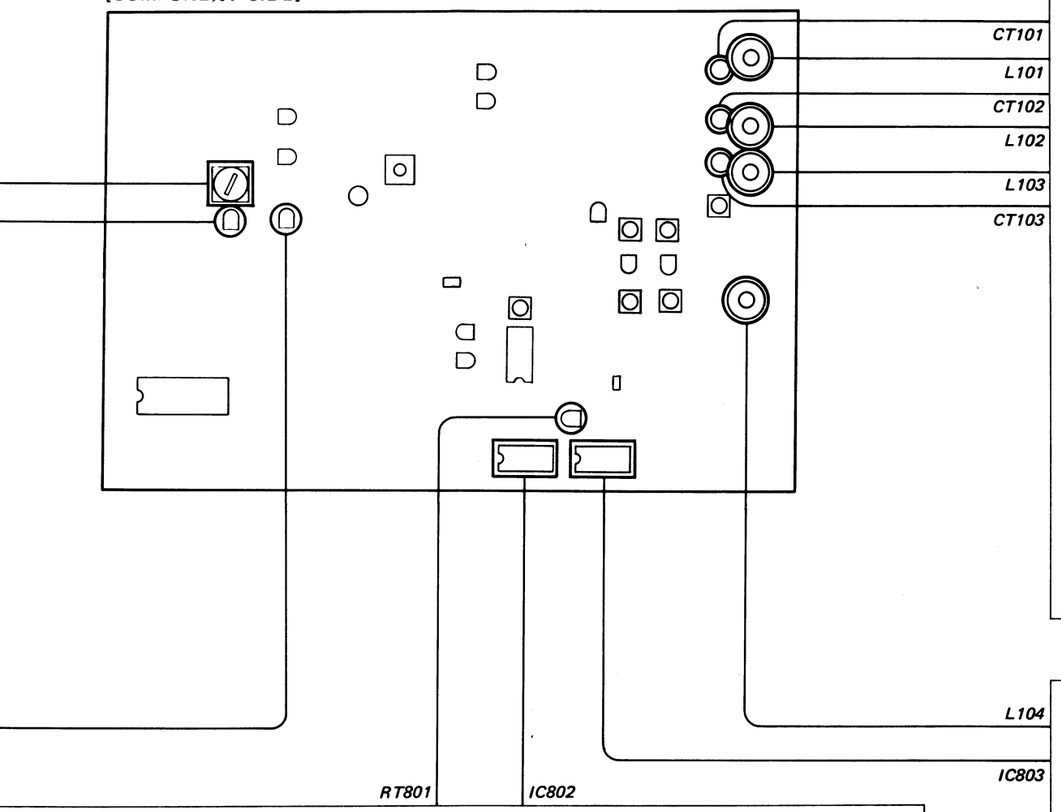
SST Circuit Adjustment

Note: The SST circuit adjustment should be made after the control voltage adjustment, and before the tracking adjustment.

1. Tune the set to 87.5 MHz by pushing the TUNING (+, –) button.
2. Adjust RT801 so that IC802 pin 11 level becomes "H" to "L".
3. Tune the set to 108.0 MHz by pushing the TUNING (+, –) button.
4. Confirm that IC802 pin 9 level is "H".

– Tuner Board –

[COMPONENT SIDE]

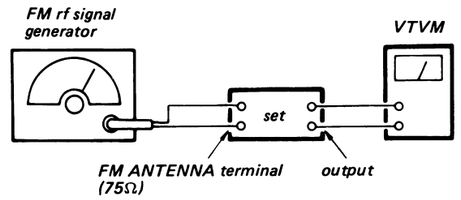


Tracking Adjustment

Setting:

IF BAND: NARROW

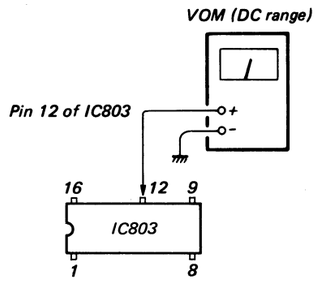
Procedure:



1. Tune the set to 108.0 MHz by pushing the TUNING (+, –) button.
2. Adjust CT101, CT102 and CT103 for a maximum reading on VTVM.
3. Tune the set to 87.5 MHz by pushing the TUNING (+, –) button.
4. Adjust L101, L102, and L103 for a maximum reading on VTVM.

Control Voltage Adjustment

1. Tune the set to 108.0 MHz by pushing the TUNING (+, –) button.
2. Adjust L104 for 21.0 ± 0.2V reading on VOM.
3. Tune the set to 87.5 MHz by pushing the TUNING (+, –) button.
4. Check for 8.0 ± 1.0V reading on VOM.



Circuit Adjustment

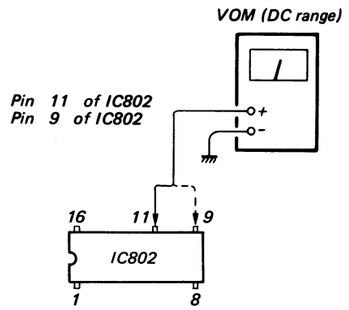
Note: The SST circuit adjustment should be made after the control voltage adjustment, and before the tracking adjustment.

Tune the set to 87.5 MHz by pushing the TUNING (+, –) button.

Adjust RT801 so that IC802 pin 11 level becomes "H" to "L".

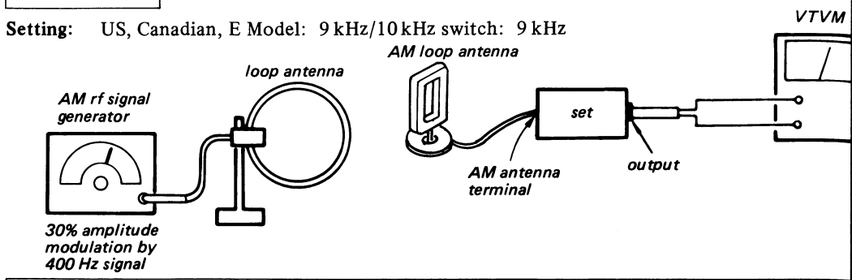
Tune the set to 108.0 MHz by pushing the TUNING (+, –) button.

Confirm that IC802 pin 9 level is "H".



AM SECTION

Setting: US, Canadian, E Model: 9 kHz/10 kHz switch: 9 kHz



AM Meter Level/AM Auto Stop Level Adjustment

Setting:

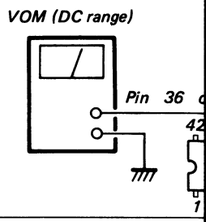
AEP, G-AEP, UK Model: BAND switch: MW

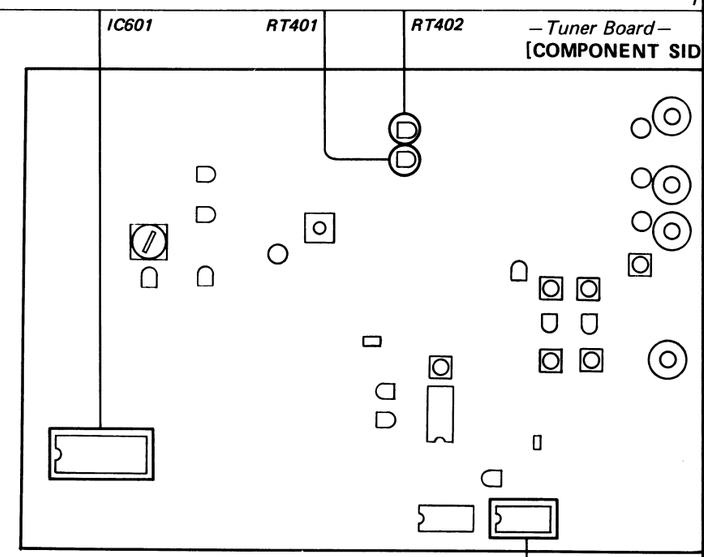
AM rf signal generator

Carrier frequency: *999 kHz*
Modulation: *400 Hz, 30% modulation*

Procedure:

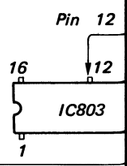
1. Set AM rf signal generator so that the AM antenna input level becomes 64 dB/m.
2. Adjust RT401 so that all the signal elements 1 – 10 light up.
3. Set AM rf signal generator s
tenna input level becomes 53
4. Adjust RT402 for 0 V readin
5. Repeat the step from 1 to 4





AM (MW) Frequency Coverage Check	
Frequency	VOM reading
1,602 kHz	22 V ± 2.0 V
531 kHz	1.8 V ± 0.1 V

LW Frequency Coverage Check (AEP, G-AEP, UK Model)	
Frequency	VOM reading
344 kHz	15.5 V ± 2.0 V
153 kHz	2.2 V ± 0.1 V



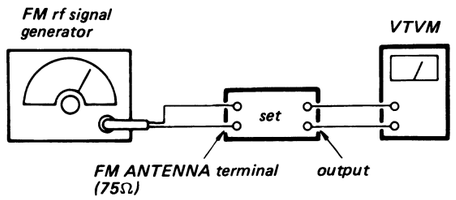
CT101
L101
CT102
L102
L103
CT103

Tracking Adjustment

Setting:

IF BAND: NARROW

Procedure:

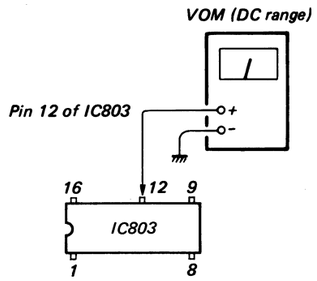


1. Tune the set to 108.0 MHz by pushing the TUNING (+, –) button.
2. Adjust CT101, CT102 and CT103 for a maximum reading on VTVM.
3. Tune the set to 87.5 MHz by pushing the TUNING (+, –) button.
4. Adjust L101, L102, and L103 for a maximum reading on VTVM.

L104
IC803

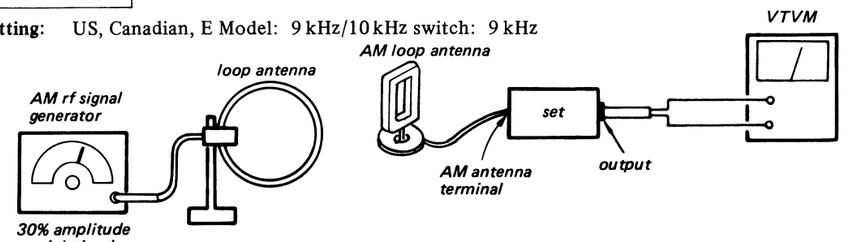
Control Voltage Adjustment

1. Tune the set to 108.0 MHz by pushing the TUNING (+, –) button.
2. Adjust L104 for 21.0 ± 0.2V reading on VOM.
3. Tune the set to 87.5 MHz by pushing the TUNING (+, –) button.
4. Check for 8.0 ± 1.0V reading on VOM.



AM SECTION

Setting: US, Canadian, E Model: 9 kHz/10 kHz switch: 9 kHz



AM Meter Level/AM Auto Stop Level Adjustment

Setting:

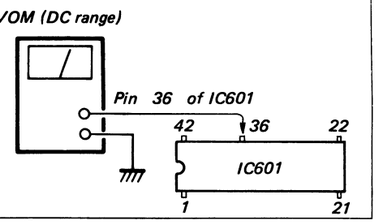
AEP, G-AEP, UK Model: BAND switch: MW

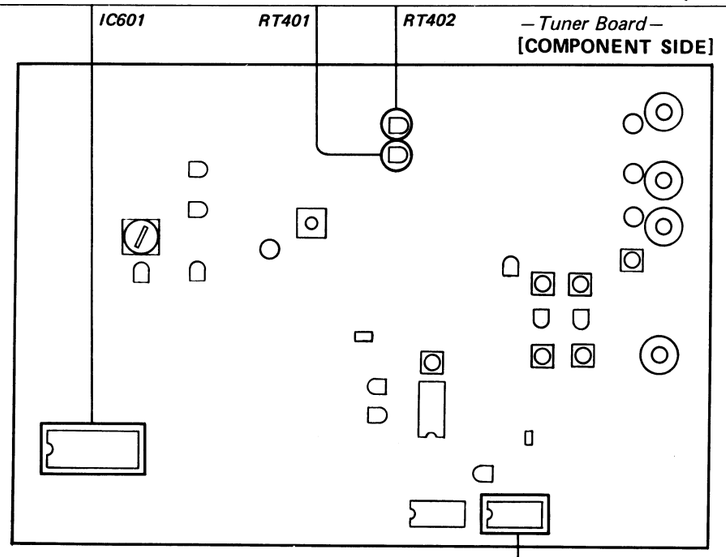
AM rf signal generator

Carrier frequency: 999 kHz
Modulation: 400 Hz, 30% modulation

Procedure:

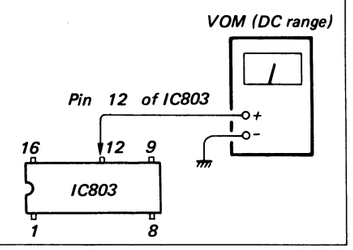
1. Set AM rf signal generator so that the AM antenna input level becomes 64 dB/m.
2. Adjust RT401 so that all the signal elements 1 – 10 light up.
3. Set AM rf signal generator so that the AM antenna input level becomes 53 dB/m.
4. Adjust RT402 for 0 V reading on VOM.
5. Repeat the step from 1 to 4 several times.





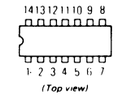
AM (MW) Frequency Coverage Check	
Frequency	VOM reading
1,602 kHz	22 V ± 2.0 V
531 kHz	1.8 V ± 0.1 V

LW Frequency Coverage Check (AEP, G-AEP, UK Model)	
Frequency	VOM reading
344 kHz	15.5 V ± 2.0 V
153 kHz	2.2 V ± 0.1 V

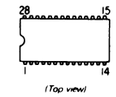


• Semiconductor Lead Layouts

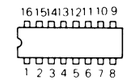
CX7925B
μPC324C



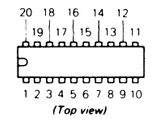
CXA1064S



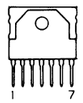
LA1235
SN74LS145N
TC9174P
TC4051BP



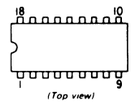
LA1245



LA5666



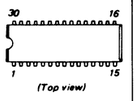
LB1290



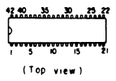
LB1493

NJM4560D
TL082CP

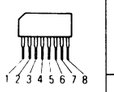
TD6301AN



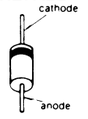
TMP47C40N-6308



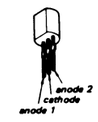
μPC1163H



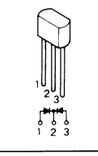
10E2N
1SS132
HZ30-2L
HZ6A2L
HZ16-2L
HZ5BLL
HZ7A2L



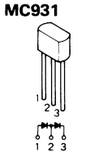
KV1320



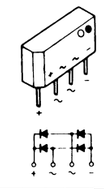
MC921



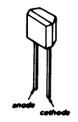
MC931



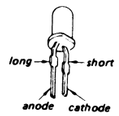
S1VB20



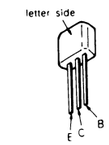
SVC333



SEL2410E-C
SEL2810A-C



2SA1175



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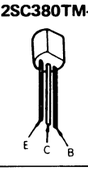
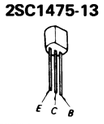
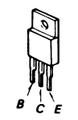
2SC380TM-Y



2SC1475-13



2SC1826-Y



2SC2603-F
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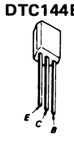
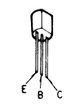
2SC634SP
DTA114ES
DTA144ES
DTC114ES
DTC124XS
DTC143TS
DTC144ES



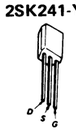
2SC3622A-L



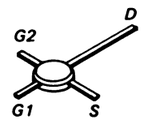
2SK125-3
2SK246-GR
2SK246-GR2
2SK30A-GR3

2SK152-3

2SK161-GR
2SK241-Y



3SK74-K



SECTION 4
DIAGRAMS

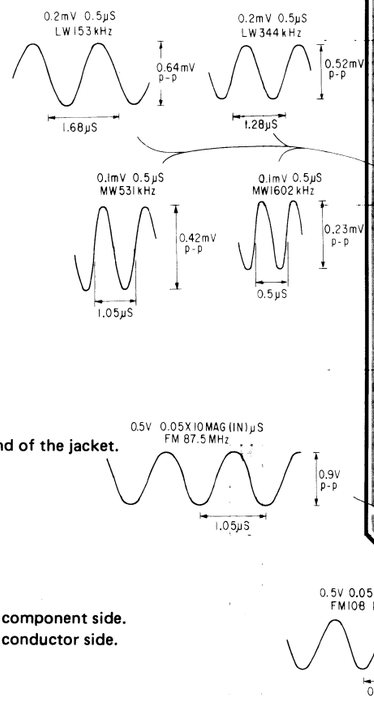
4-1. MOUNTING DIAGRAM (AEP, G-AEP, UK model)

• See page 17 for Semiconductor Lead Layouts.

• **Semiconductors Location**

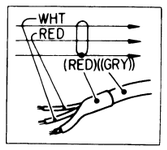
Ref. No.	Location	Ref. No.	Location
D101	A-2	IC701	H-19
D102	C-2	IC702	H-20
D103	D-2	IC703	H-21
D104	E-2	IC704	G-25
D201	A-4	IC705	H-17
D202	B-4	IC801	H-5
D203	F-3	IC802	H-6
D205	F-5	IC803	H-5
D206	E-8	IC901	D-12
D207	E-8		
D208	D-7	Q101	B-2
D211	D-6	Q102	D-2
D212	D-6	Q103	F-2
D301	E-9	Q104	E-2
D302	E-10	Q105	F-2
D303	E-9	Q201	A-3
D304	C-9	Q202	B-4
D305	E-9	Q203	D-3
D306	C-10	Q204	E-3
D601	G-8	Q205	G-5
D602	G-10	Q206	G-7
D603	E-11	Q207	F-3
D604	G-8	Q208	F-3
D605	F-13	Q209	F-3
D606	F-10	Q210	D-4
D608	F-13	Q211	F-4
D609	F-12	Q212	F-5
D610	F-12	Q213	F-8
D613	G-12	Q214	F-8
D614	G-12	Q215	C-4
D615	G-12	Q216	E-4
D616	F-11	Q217	E-4
D617	F-11	Q218	F-4
D618	E-12	Q222	D-7
D619	H-12	Q223	D-8
D620	H-12	Q301	D-11
D621	H-12	Q302	D-10
D622	H-12	Q303	D-10
D623	H-12	Q304	A-10
D624	G-8	Q305	A-11
D625	G-8	Q306	A-11
D626	G-8	Q307	B-9
D627	E-11	Q401	B-4
D628	E-10	Q402	B-6
D629	F-11	Q403	B-6
D630	G-13	Q404	B-6
D701	H-15	Q405	B-6
D702	G-17	Q406	A-6
D703	G-16	Q407	A-7
D704	G-19	Q408	A-6
D705	H-16	Q409	A-7
D706	H-16	Q410	C-7
D707	H-22	Q411	C-7
D708	H-23	Q501	H-3
D709	H-24	Q502	G-3
D710	H-25	Q503	H-4
D711	H-26	Q504	G-4
D712	H-22	Q505	G-3
D713	H-23	Q601	E-9
D714	H-24	Q602	E-9
D715	H-25	Q603	E-9
D716	H-26	Q605	G-9
D717	G-18	Q606	G-9
D801	G-7	Q607	C-8
D851	H-16	Q608	E-10
D901	C-12	Q609	G-8
D902	C-13	Q610	H-8
D903	C-13	Q611	E-10
D904	D-13	Q612	E-10
D905	D-13	Q613	E-11
D906	E-12	Q614	E-11
D907	E-12	Q615	H-10
D908	B-13	Q616	H-10
		Q617	D-11
IC201	B-4	Q618	F-10
IC202	C-4	Q619	D-11
IC203	F-6	Q701	H-8
IC204	D-6	Q702	H-16
IC205	E-6	Q704	H-16
IC301	C-10	Q703	H-16
IC302	B-9	Q705	H-15
IC401	B-8	Q801	H-7
IC501	G-2	Q901	C-12
IC601	G-11	Q902	B-12
		Q903	F-13

【TUNER BOARD】



Note

• Color code of sleeving over the end of the jacket.



• ○—— : parts extracted from the component side.

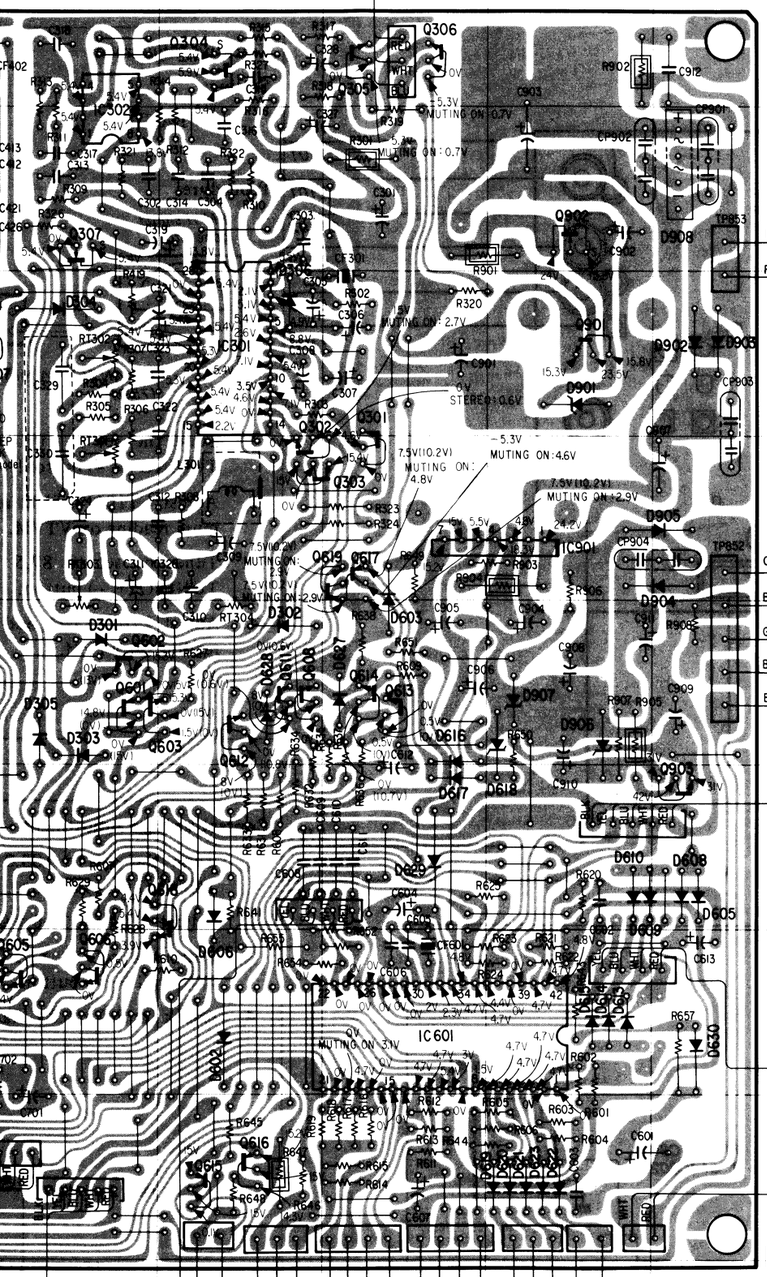
• ●—— : parts extracted from the conductor side.

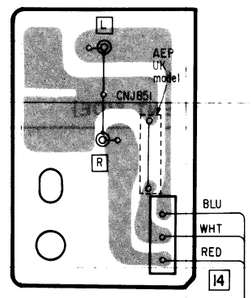
【OUTPUT BOARD】

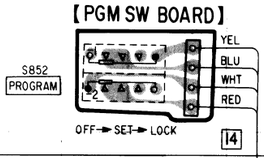
【AC SW BOARD】

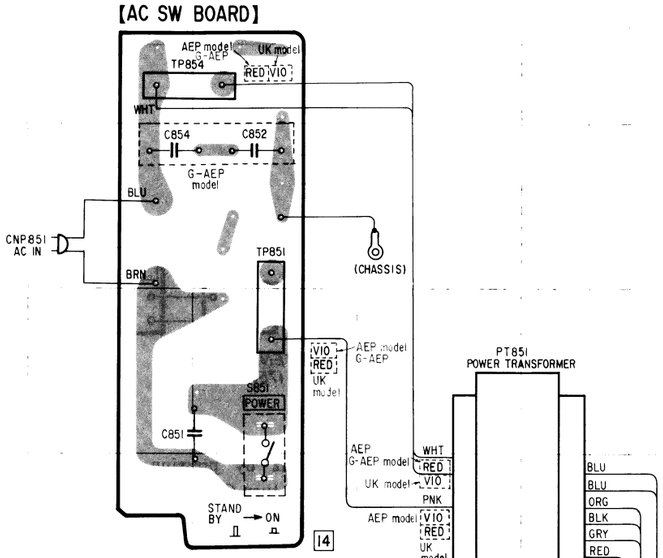
【PGM SW BOARD】

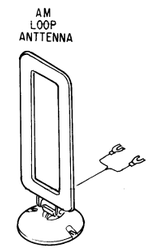
【PRESET BOARD】

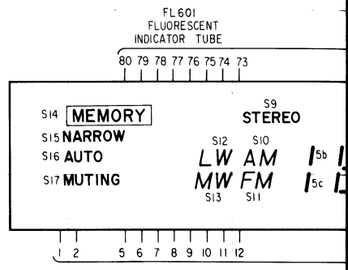


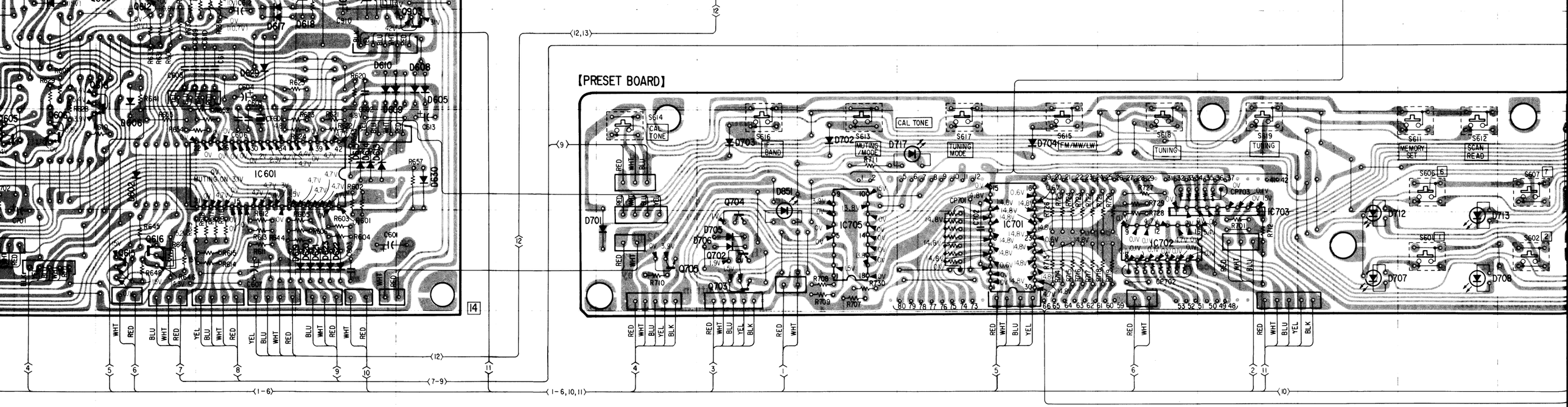




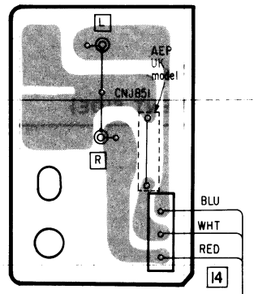




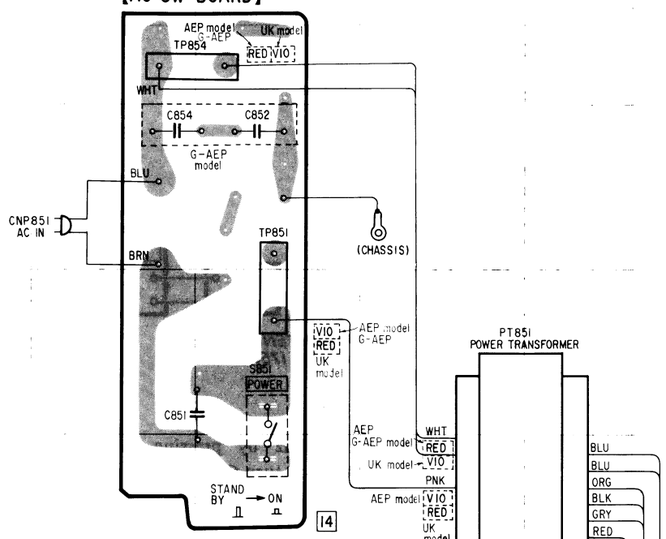




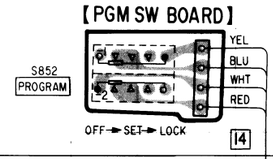
【OUTPUT BOARD】

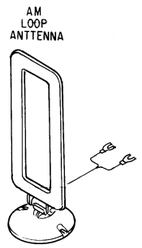


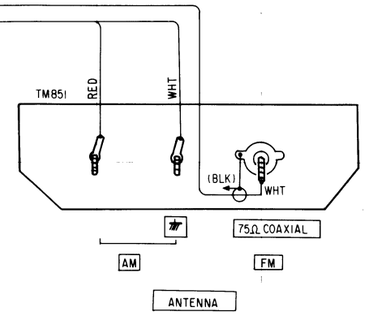
【AC SW BOARD】

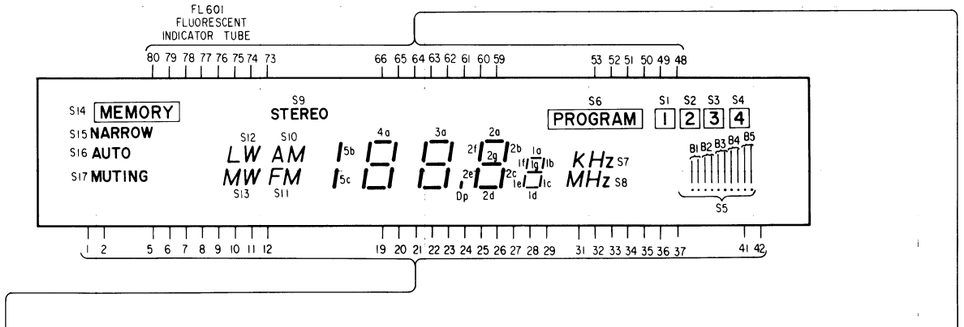


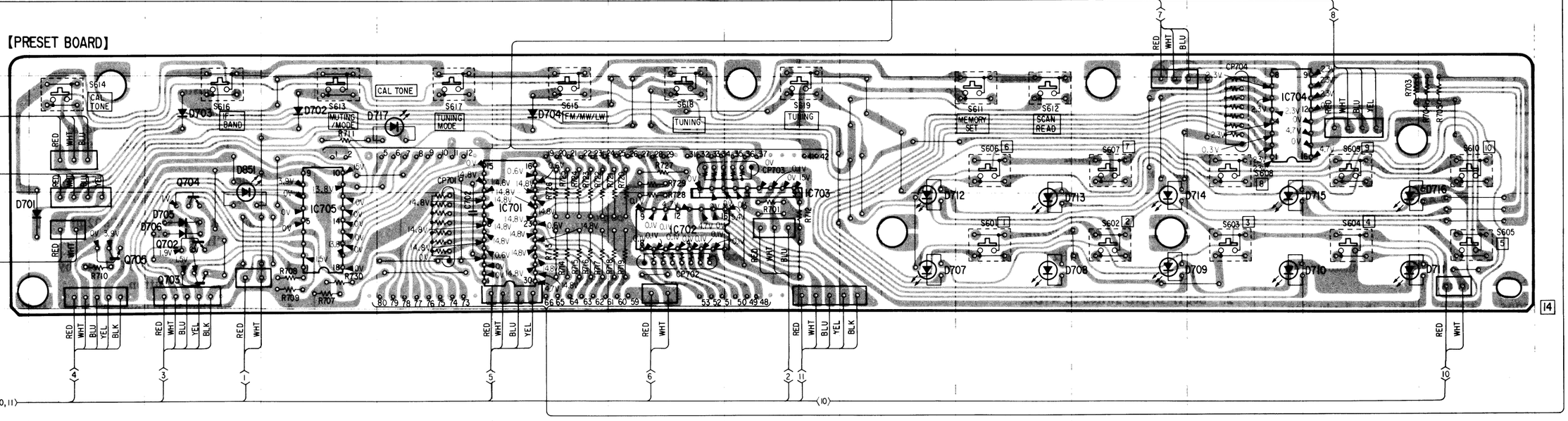
【PGM SW BOARD】











(12,13)
(9)
(12)
(1-6,10,11)
(10)

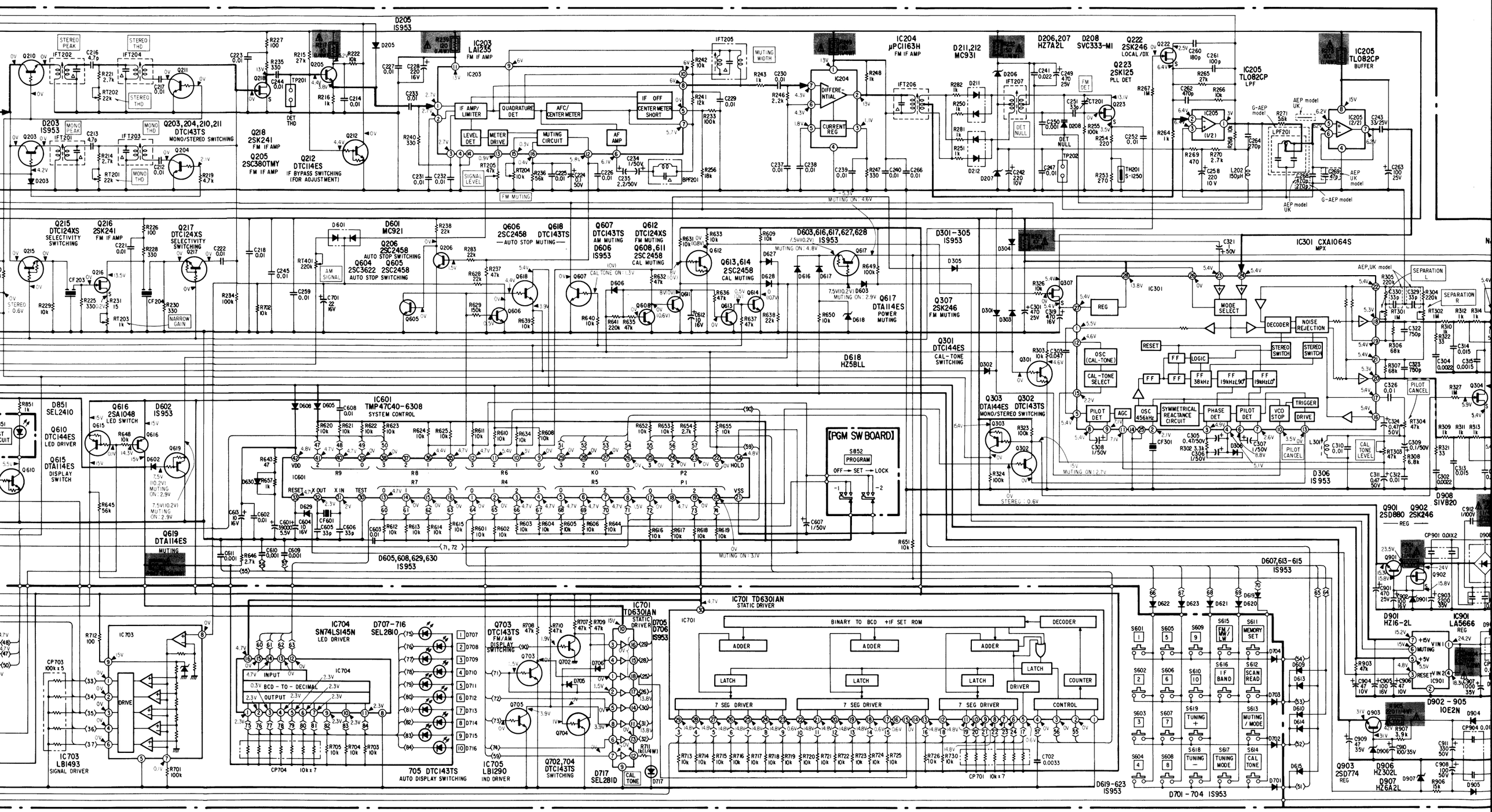
4-2. SCHEMATIC DIAGRAM (AEP, G-AEP, UK model)

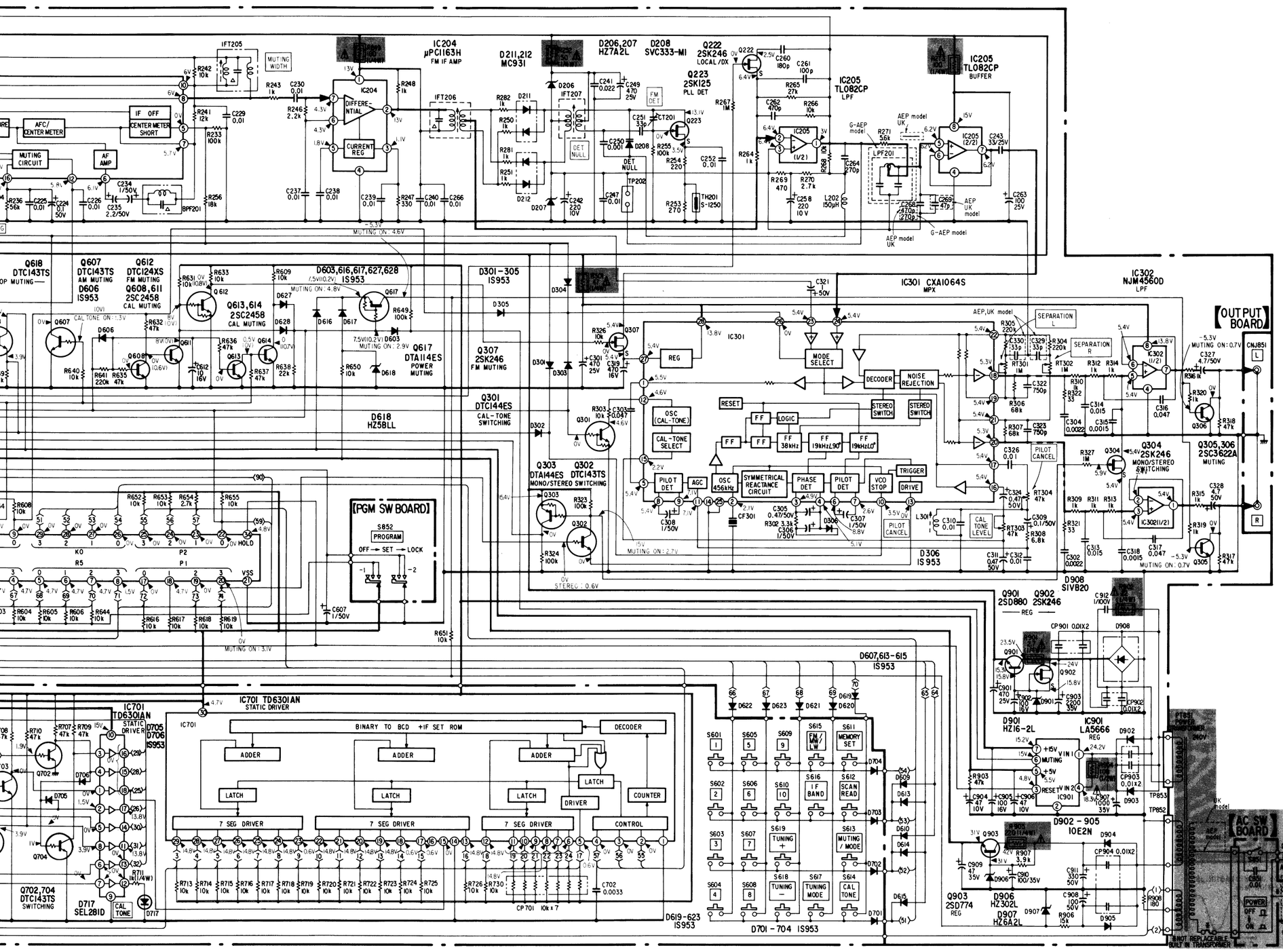
【TUNER BOARD】

【PRESET BOARD(1/2)】

【PRESET BOARD(1/2)】

14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30





Note

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : FM signal path.
- : nonflammable resistor.
- : B+ bus.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with VOM (50 kΩ/V).
  no mark: FM
  ( ) : MW or LW
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no signal mode by using oscilloscope.
- Switches:

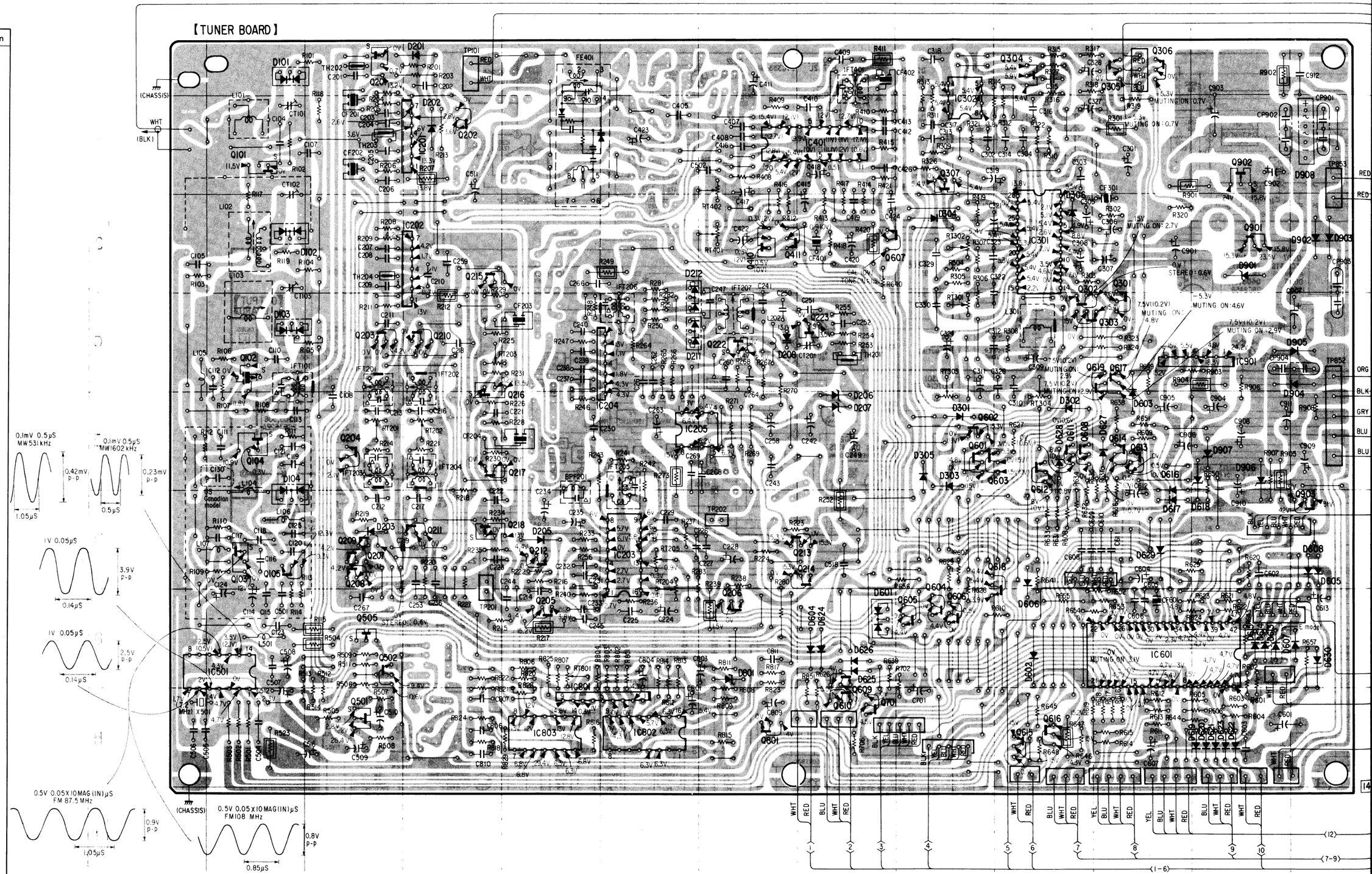
Ref. No.	Switch	Position
S601	PRESET 1	OFF
S602	PRESET 2	OFF
S603	PRESET 3	OFF
S604	PRESET 4	OFF
S605	PRESET 5	OFF
S606	PRESET 6	OFF
S607	PRESET 7	OFF
S608	PRESET 8	OFF
S609	PRESET 9	OFF
S610	PRESET 10	OFF
S611	MEMORY	OFF
S612	SCAN READ	OFF
S613	MUTING MODE	OFF
S614	CAL TONE	OFF
S615	FM/MW/LW	OFF
S616	IF BAND	OFF
S617	TUNING	OFF
S618	TUNING -	OFF
S619	TUNING +	OFF
S851	POWER	OFF
S852	PROGRAM	OFF

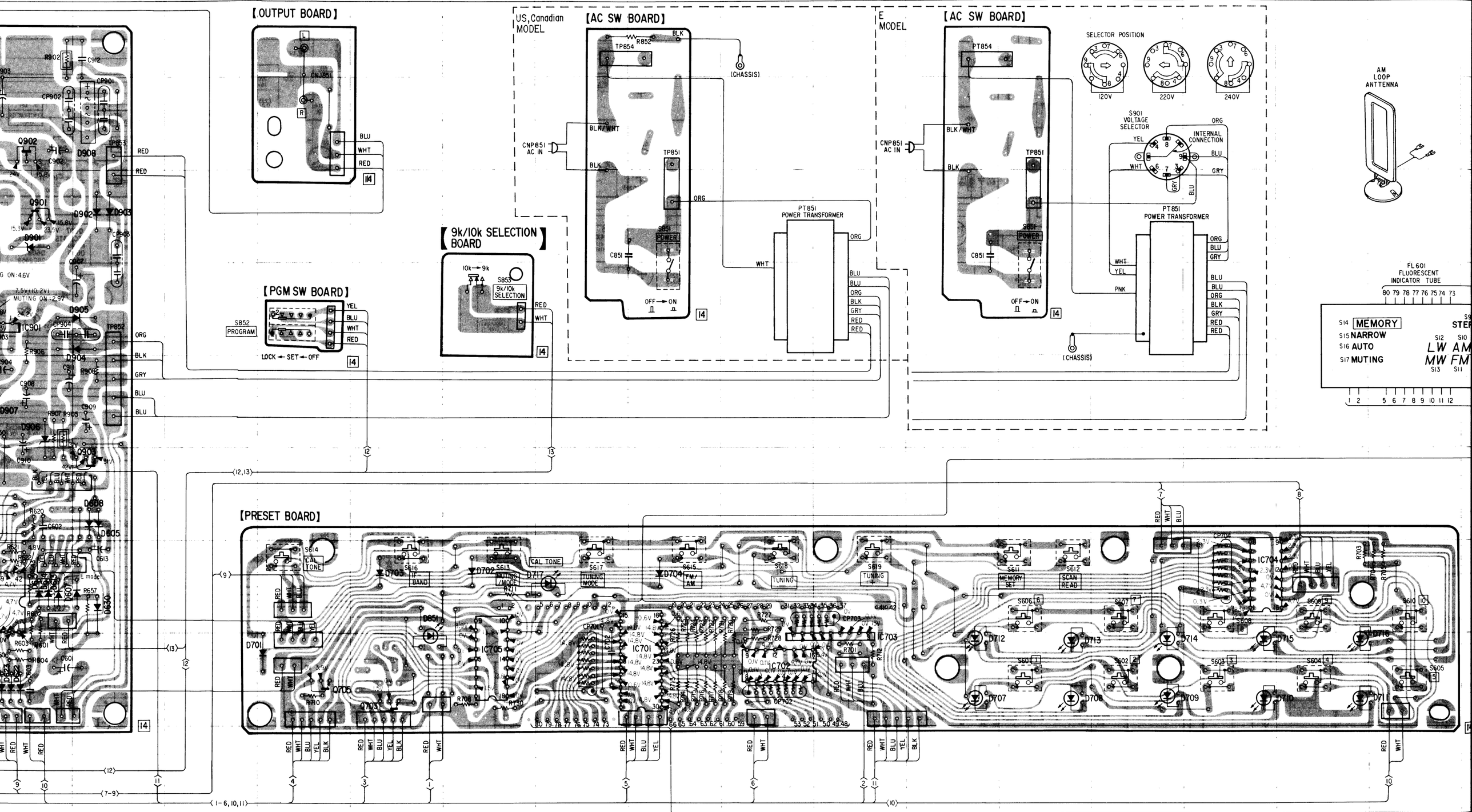
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

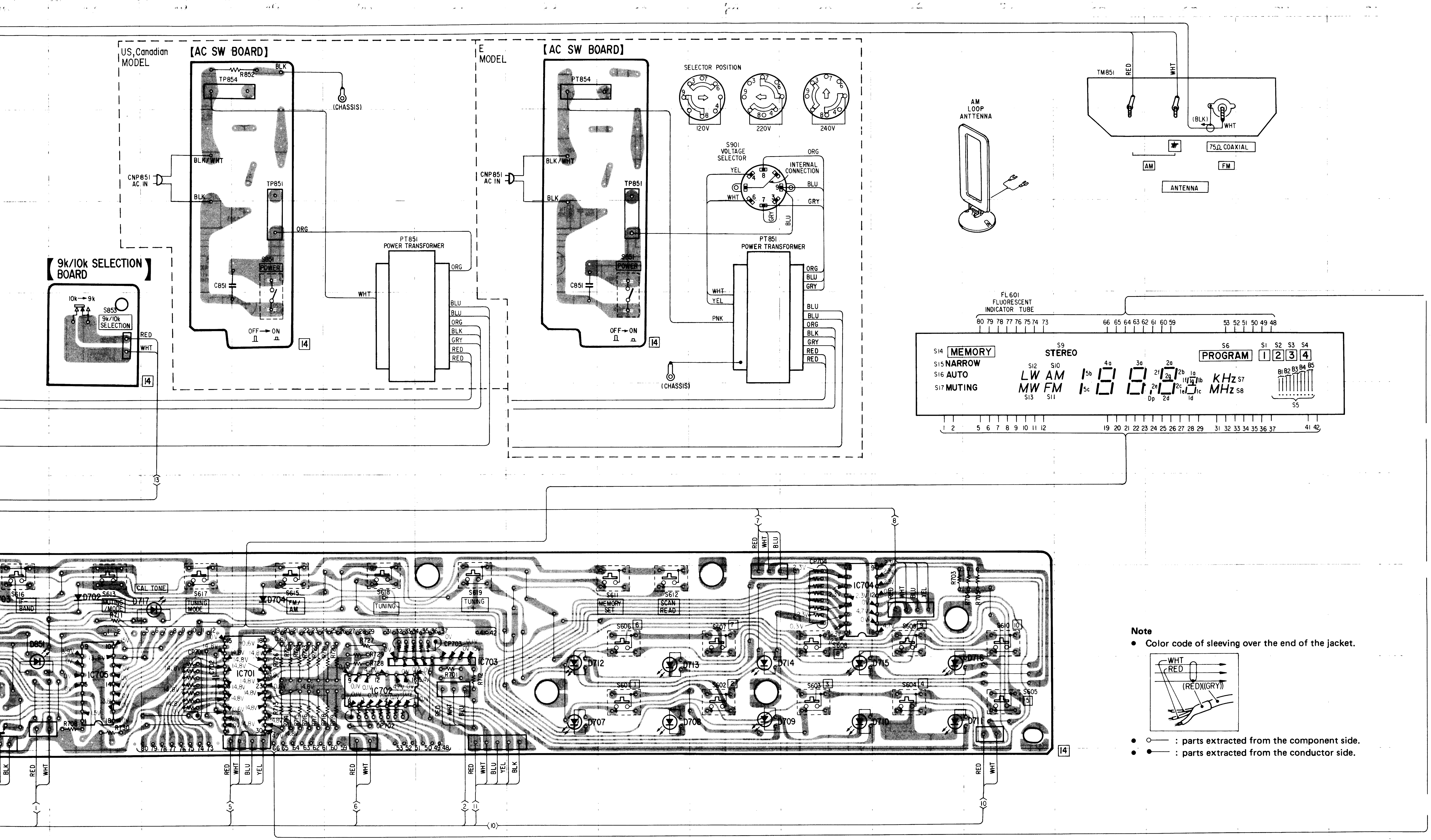
• See page 17 for Semiconductor Lead Layouts.
• See page 38 for notes.

• **Semiconductors Location**

Ref. No.	Location	Ref. No.	Location
D101	A-2	IC302	B-9
D102	C-2	IC401	B-8
D103	D-2	IC501	G-2
D104	E-2	IC601	G-11
D201	A-4	IC701	H-19
D202	B-4	IC702	H-20
D203	F-3	IC703	H-21
D205	F-5	IC704	G-25
D206	E-8	IC705	H-17
D207	E-8	IC801	H-5
D208	D-7	IC802	H-6
D211	D-6	IC803	H-5
D212	D-6	IC901	D-12
D301	E-9		
D302	E-10	Q101	B-2
D303	E-9	Q102	D-2
D304	C-9	Q103	F-2
D305	E-9	Q104	E-2
D306	C-10	Q105	F-2
D601	G-8	Q201	A-3
D602	G-10	Q202	B-4
D603	E-11	Q203	D-3
D604	G-8	Q204	E-3
D605	F-13	Q205	G-5
D606	F-10	Q206	G-7
D607	G-13	Q207	F-3
D608	F-13	Q208	F-3
D613	G-12	Q209	F-3
D614	G-12	Q210	D-4
D615	G-12	Q211	F-4
D616	F-11	Q212	F-5
D617	F-11	Q213	F-8
D618	E-12	Q214	F-8
D619	H-12	Q215	C-4
D620	H-12	Q216	E-4
D621	H-12	Q217	E-4
D622	H-12	Q218	F-4
D623	H-12	Q222	D-7
D624	G-8	Q223	D-8
D625	G-8	Q301	D-11
D626	G-8	Q302	D-10
D627	E-11	Q303	D-10
D628	E-10	Q304	A-10
D629	F-11	Q305	A-11
D630	G-13	Q306	A-11
D701	H-15	Q307	B-9
D702	G-17	Q410	C-7
D703	G-16	Q411	C-7
D704	G-19	Q501	H-3
D707	H-22	Q502	G-3
D708	H-23	Q505	G-3
D709	H-24	Q601	E-9
D710	H-25	Q602	E-9
D711	H-26	Q603	E-9
D712	H-22	Q604	G-9
D713	H-23	Q605	G-9
D714	H-24	Q606	G-9
D715	H-25	Q607	C-8
D716	H-26	Q608	E-10
D717	G-18	Q609	G-8
D801	G-7	Q610	H-8
D851	H-16	Q611	E-10
D901	C-12	Q612	E-10
D902	C-13	Q613	E-11
D903	C-13	Q614	E-11
D904	D-13	Q615	H-10
D905	D-13	Q616	H-10
D906	E-12	Q617	D-11
D907	E-12	Q618	F-10
D908	B-13	Q619	D-11
		Q701	H-8
IC201	B-4	Q703	H-16
IC202	C-4	Q705	H-15
IC203	F-6	Q801	H-7
IC204	D-6	Q901	C-12
IC205	E-6	Q902	B-12
IC301	C-10	Q903	F-13



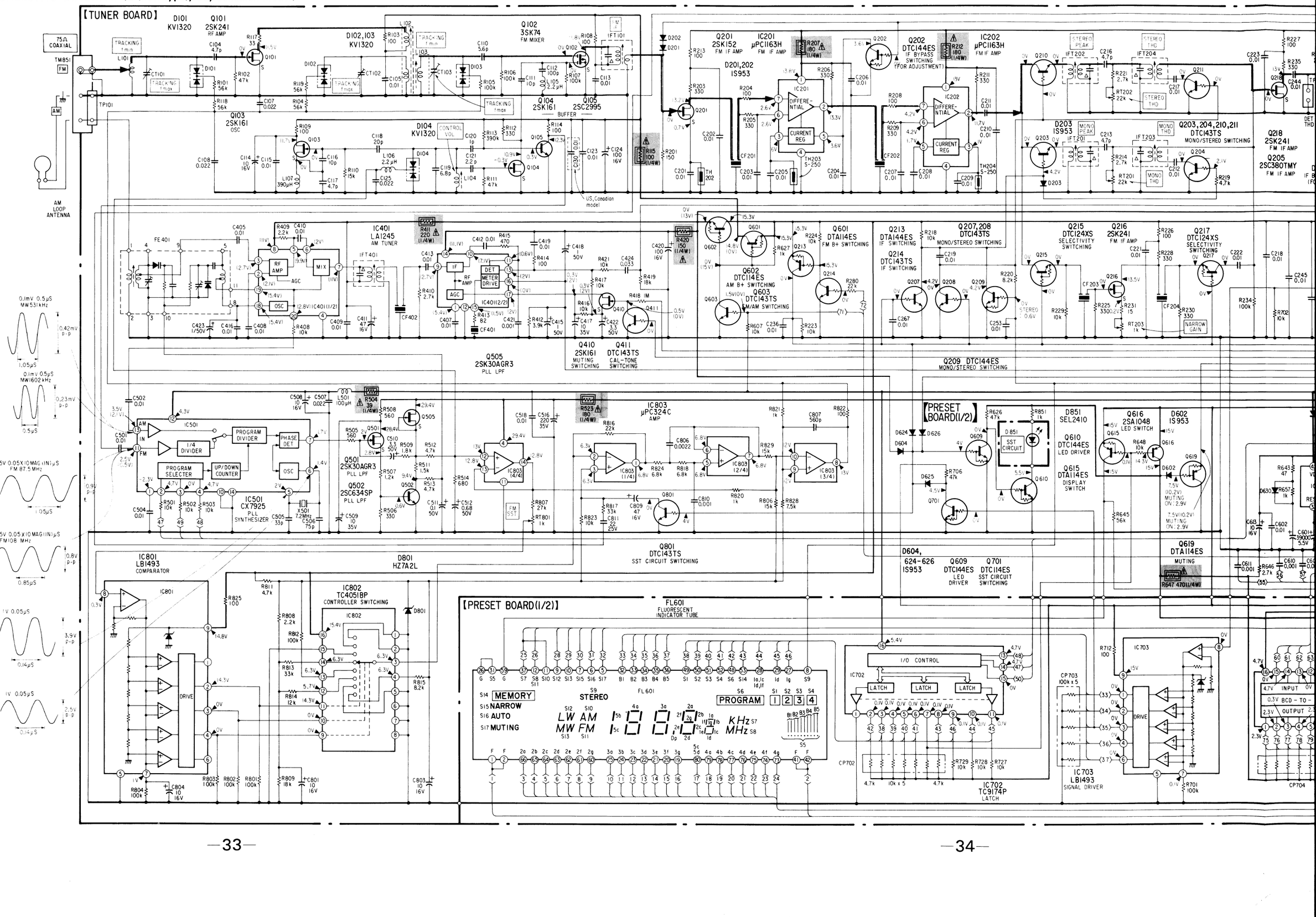

【OUTPUT BOARD】
【PGM SW BOARD】
【9k/10k SELECTION BOARD】
US, Canadian MODEL
【AC SW BOARD】
E MODEL
【AC SW BOARD】
SELECTOR POSITION
120V
220V
240V
S901 VOLTAGE SELECTOR
INTERNAL CONNECTION
PT851 POWER TRANSFORMER
AM LOOP ANTTENNA
FL601 FLUORESCENT INDICATOR TUBE
S14 MEMORY
S15 NARROW
S16 AUTO
S17 MUTING
【PRESET BOARD】
IC701
IC702
IC703
IC704
IC705

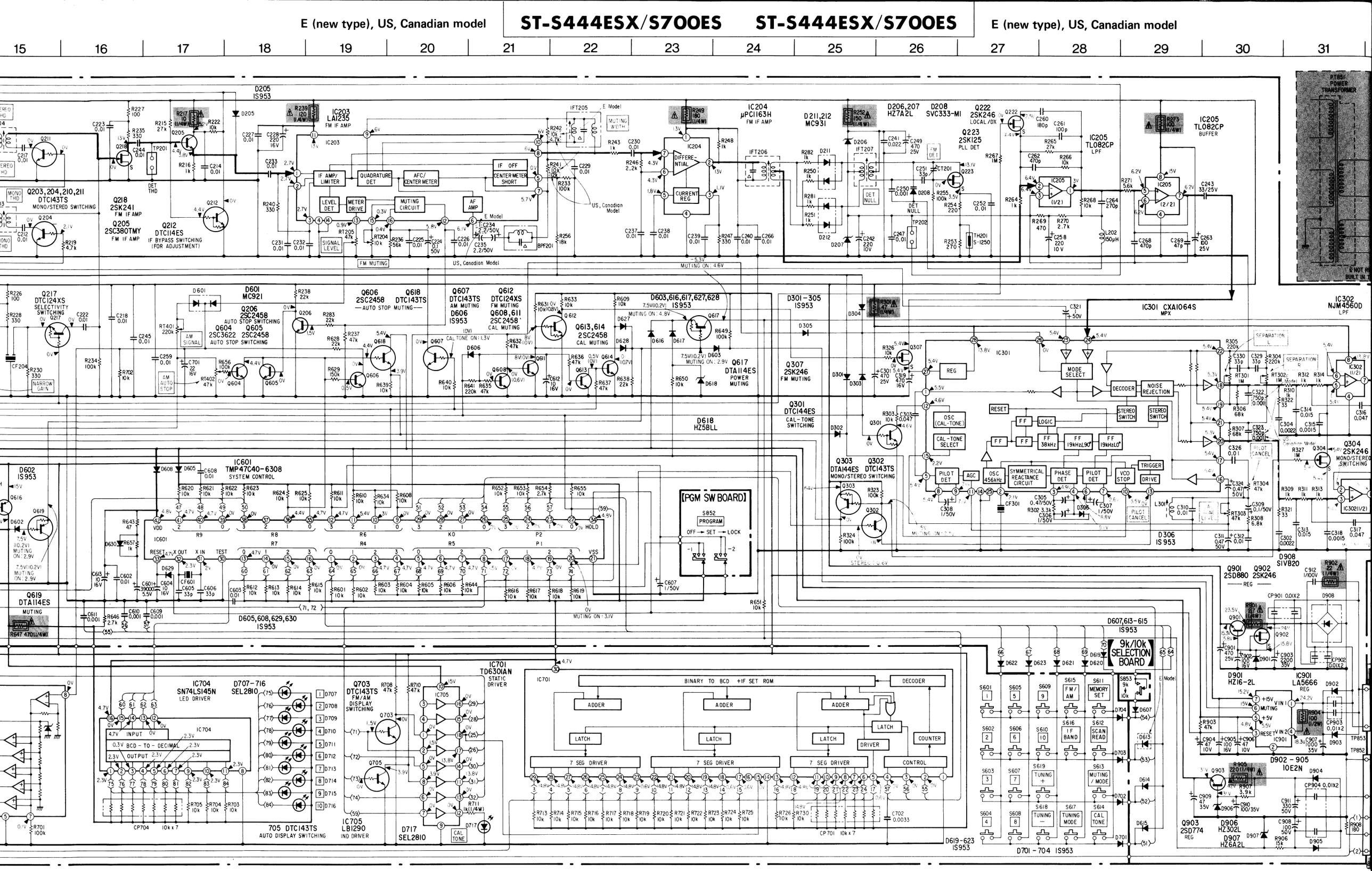

US, Canadian MODEL
【AC SW BOARD】
E MODEL
【AC SW BOARD】
SELECTOR POSITION
120V
220V
240V
S901 VOLTAGE SELECTOR
INTERNAL CONNECTION
PT851 POWER TRANSFORMER
CNP851 AC IN
(CHASSIS)
S851 POWER
OFF → ON
【9k/10k SELECTION BOARD】
S853 9k/10k SELECTION
AM LOOP ANTTENNA
TM851
75Ω COAXIAL
AM
FM
ANTENNA
FL601 FLUORESCENT INDICATOR TUBE
MEMORY
NARROW
AUTO
MUTING
STEREO
LW AM
MW FM
PROGRAM
KHz
MHz
IF BAND
MUTING /MODE
CAL TONE
TUNING MODE
FM/ AM
TUNING −
TUNING +
MEMORY SET
SCAN READ
IC701
IC702
IC703
IC704
IC705

Note

- Color code of sleeving over the end of the jacket.
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.

4-4. SCHEMATIC DIAGRAM (E (new type), US, Canadian model)




15
16
17
18
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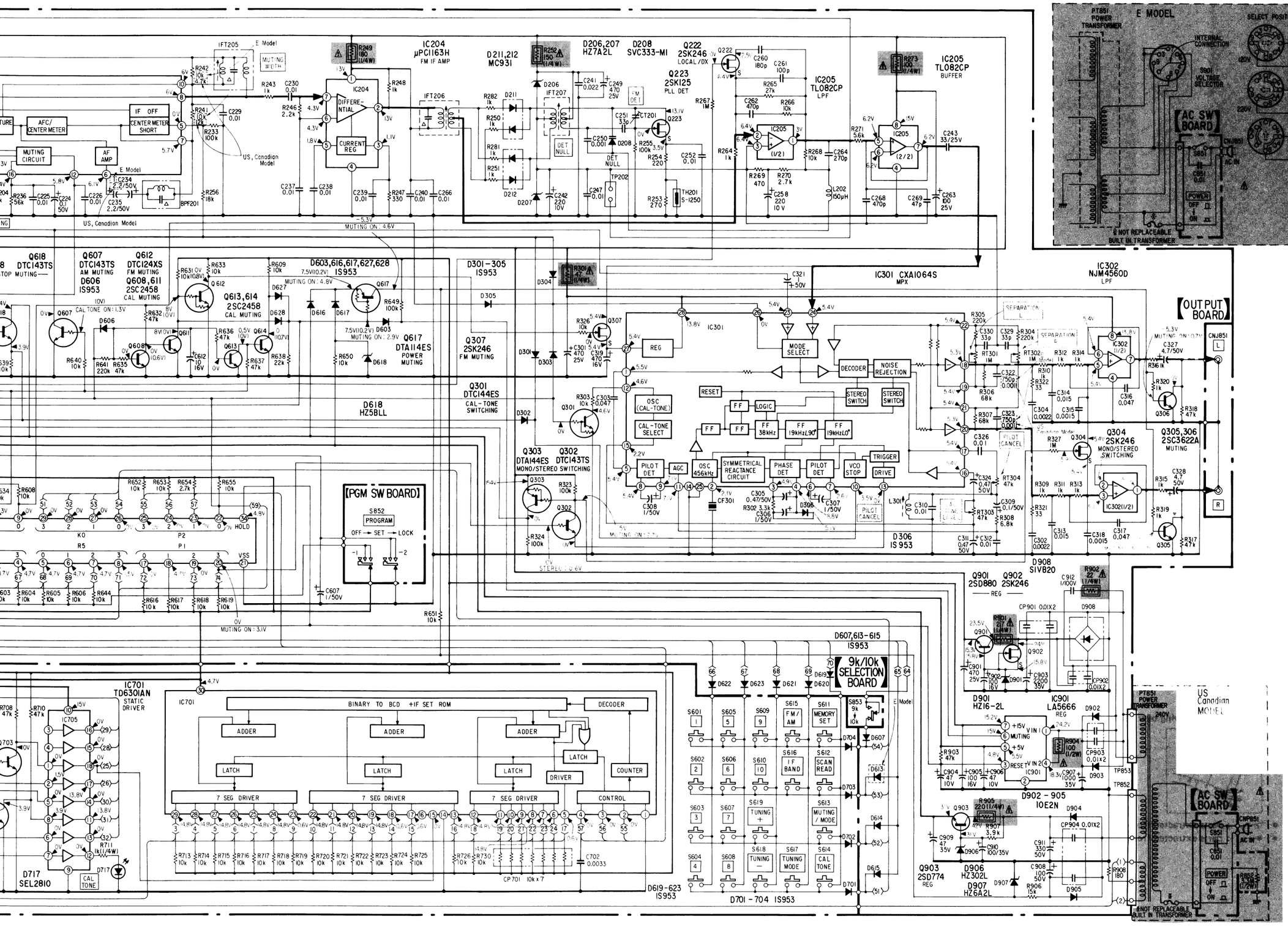
23
24
25
26
27
28
29
30
31
IC203 LA1235 FM IF AMP
IC204 μPC1163H FM IF AMP
IC205 TL082CP BUFFER
IC205 TL082CP LPF
IC301 CXA1064S MPX
IC302 NJM4560D LPF
IC601 TMP47C40-6308 SYSTEM CONTROL
IC701 TD6301AN STATIC DRIVER
IC704 SN74LS145N LED DRIVER
IC705 LB1290 IND DRIVER
Q203,204,210,211 DTC143TS MONO/STEREO SWITCHING
Q205 2SC380TMY FM IF AMP
Q212 DTC114ES IF BYPASS SWITCHING (FOR ADJUSTMENT)
Q217 DTC124XS SELECTIVITY SWITCHING
Q606 2SC2458 AUTO STOP MUTING
Q618 DTC143TS AUTO STOP MUTING
Q607 DTC143TS AM MUTING
Q612 DTC124XS FM MUTING
Q608,611 2SC2458 CAL MUTING
Q613,614 2SC2458 CAL MUTING
Q617 DTA114ES POWER MUTING
Q307 2SK246 FM MUTING
Q301 DTC144ES CAL-TONE SWITCHING
Q303 DTA144ES MONO/STEREO SWITCHING
Q302 DTC143TS
Q619 DTA114ES MUTING
Q223 2SK125 PLL DET
Q222 2SK246 LOCAL/DX
Q901 2SD880 REG
Q902 2SK246 REG
Q903 2SD774 REG
Q304 2SK246 MONO/STEREO SWITCHING
Q703 DTC143TS FM/AM DISPLAY SWITCHING
D618 HZ5BLL
D606 IS953
D603,616,617,627,628 IS953
D605,608,629,630 IS953
D607,613-615 IS953
D619-623 IS953
D701-704 IS953
D602 IS953
D306 IS953
D301-305 IS953
D206,207 HZ7A2L
D208 SVC333-MI
D211,212 MC931
D902-905 10E2N
D906 HZ302L
D907 HZ6A2L
D908 SIVB20
D901 HZ16-2L
IC901 LA5666 REG
PT851 POWER TRANSFORMER
[PGM SW BOARD]
S852 PROGRAM
OFF → SET → LOCK
9k/10k SELECTION BOARD
BINARY TO BCD +IF SET ROM
ADDER
LATCH
7 SEG DRIVER
DECODER
DRIVER
COUNTER
CONTROL
REG
MODE SELECT
DECODER
NOISE REJECTION
STEREO SWITCH
OSC (CAL-TONE)
CAL-TONE SELECT
PILOT DET
AGC
OSC 456kHz
SYMMETRICAL REACTANCE CIRCUIT
PHASE DET
VCO STOP
TRIGGER
DRIVE
PILOT CANCEL
FF
LOGIC
38kHz
19kHzL90°
19kHzLO°
RESET
IF AMP/ LIMITER
QUADRATURE DET
AFC/ CENTER METER
IF OFF CENTER METER SHORT
LEVEL DET
METER DRIVE
MUTING CIRCUIT
AF AMP
SIGNAL LEVEL
FM MUTING
MUTING WIDTH
DIFFERENTIAL
CURRENT REG
FM DET
DET NULL
AM SIGNAL
AM AUTO STOP
NARROW GAIN
CAL TONE ON : 1.3V
MUTING ON : 4.6V
MUTING ON : 2.9V
MUTING ON : 3.1V
STEREO : 0.6V
US, Canadian Model
E Model
CP704 10k x 7
CP701 10k x 7
705 DTC143TS AUTO DISPLAY SWITCHING
D717 SEL2810
D707-716 SEL2810
CAL TONE
SEPARATION L
SEPARATION R
PILOT CANCEL
& NOT RE BUILT IN



Note

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▬▶ FM signal path.
- ▭ : nonflammable resistor.
- ——— B+ bus.
- [ ] adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with VOM (50 kΩ/V).
  no mark: FM
  ( ) : AM
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no signal mode by using oscilloscope.
- **Switches:**

Ref. No.	Switch	Position
S601	PRESET 1	OFF
S602	PRESET 2	OFF
S603	PRESET 3	OFF
S604	PRESET 4	OFF
S605	PRESET 5	OFF
S606	PRESET 6	OFF
S607	PRESET 7	OFF
S608	PRESET 8	OFF
S609	PRESET 9	OFF
S610	PRESET 10	OFF
S611	MEMORY	OFF
S612	SCAN READ	OFF
S613	MUTING MODE	OFF
S614	CAL TONE	OFF
S615	FM/AM	OFF
S616	IF BAND	OFF
S617	TUNING	OFF
S618	TUNING -	OFF
S619	TUNING +	OFF
S851	POWER	OFF
S852	PROGRAM	OFF
S853	9k/10k SELECTION	10k
S901		
(E model)	VOLTAGE SELECTOR	220V

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-5. MOUNTING DIAGRAM (E model (former type))

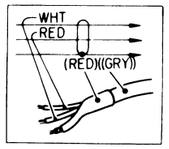
• See page 17 for Semiconductor Lead Layouts.

• **Semiconductors Location**

Ref. No.	Location	Ref. No.	Location
D101	A-2	IC302	B-9
D102	C-2	IC401	B-8
D103	D-2	IC501	G-2
D104	F-2	IC601	G-11
D201	A-4	IC701	H-19
D202	B-4	IC702	H-20
D203	F-3	IC703	H-21
D205	F-5	IC704	G-25
D206	E-8	IC705	H-17
D207	E-8	IC801	H-6
D208	D-7	IC802	H-6
D211	D-6	IC803	H-5
D212	D-6	IC901	D-12
D301	E-9		
D302	E-10	Q101	B-2
D303	E-9	Q102	D-2
D304	C-9	Q103	F-2
D305	E-9	Q104	E-2
D306	C-10	Q105	F-2
D601	G-8	Q201	A-3
D602	G-10	Q202	B-4
D603	E-11	Q203	D-3
D604	G-8	Q204	E-3
D605	F-13	Q205	G-5
D606	F-10	Q206	G-7
D607	G-13	Q207	F-3
D608	F-13	Q208	F-3
D613	G-12	Q209	F-3
D614	G-12	Q210	D-4
D615	G-12	Q211	F-4
D616	E-11	Q212	F-5
D617	F-11	Q213	F-8
D618	E-12	Q214	F-8
D619	H-12	Q215	C-4
D620	H-12	Q216	D-4
D621	H-12	Q217	E-4
D622	H-12	Q218	F-4
D623	H-12	Q222	D-7
D624	G-8	Q223	D-8
D625	G-8	Q301	D-11
D626	G-8	Q302	D-10
D627	E-11	Q303	D-10
D628	E-10	Q304	A-10
D629	F-11	Q305	A-11
D630	G-13	Q306	A-11
D701	H-15	Q307	B-9
D702	G-17	Q410	C-7
D703	G-16	Q411	C-7
D704	G-19	Q501	H-3
D707	H-22	Q502	G-3
D708	H-23	Q505	G-3
D709	H-24	Q601	E-9
D710	H-25	Q602	E-9
D711	H-26	Q603	E-10
D712	H-22	Q604	G-9
D713	H-23	Q605	G-9
D714	H-24	Q606	G-9
D715	H-25	Q607	C-8
D716	H-26	Q608	E-10
D717	G-18	Q609	G-8
D801	G-7	Q610	H-8
D851	H-16	Q611	E-10
D901	C-12	Q612	E-10
D902	C-13	Q613	E-11
D903	C-13	Q614	E-11
D904	D-13	Q615	H-10
D905	D-13	Q616	H-10
D906	E-12	Q617	D-11
D907	E-12	Q618	F-10
D908	B-13	Q619	D-11
		Q701	H-8
IC201	B-4	Q703	H-16
IC202	C-4	Q705	H-15
IC203	F-6	Q801	H-7
IC204	D-6	Q901	C-12
IC205	E-6	Q902	B-12
IC301	C-10	Q903	F-13

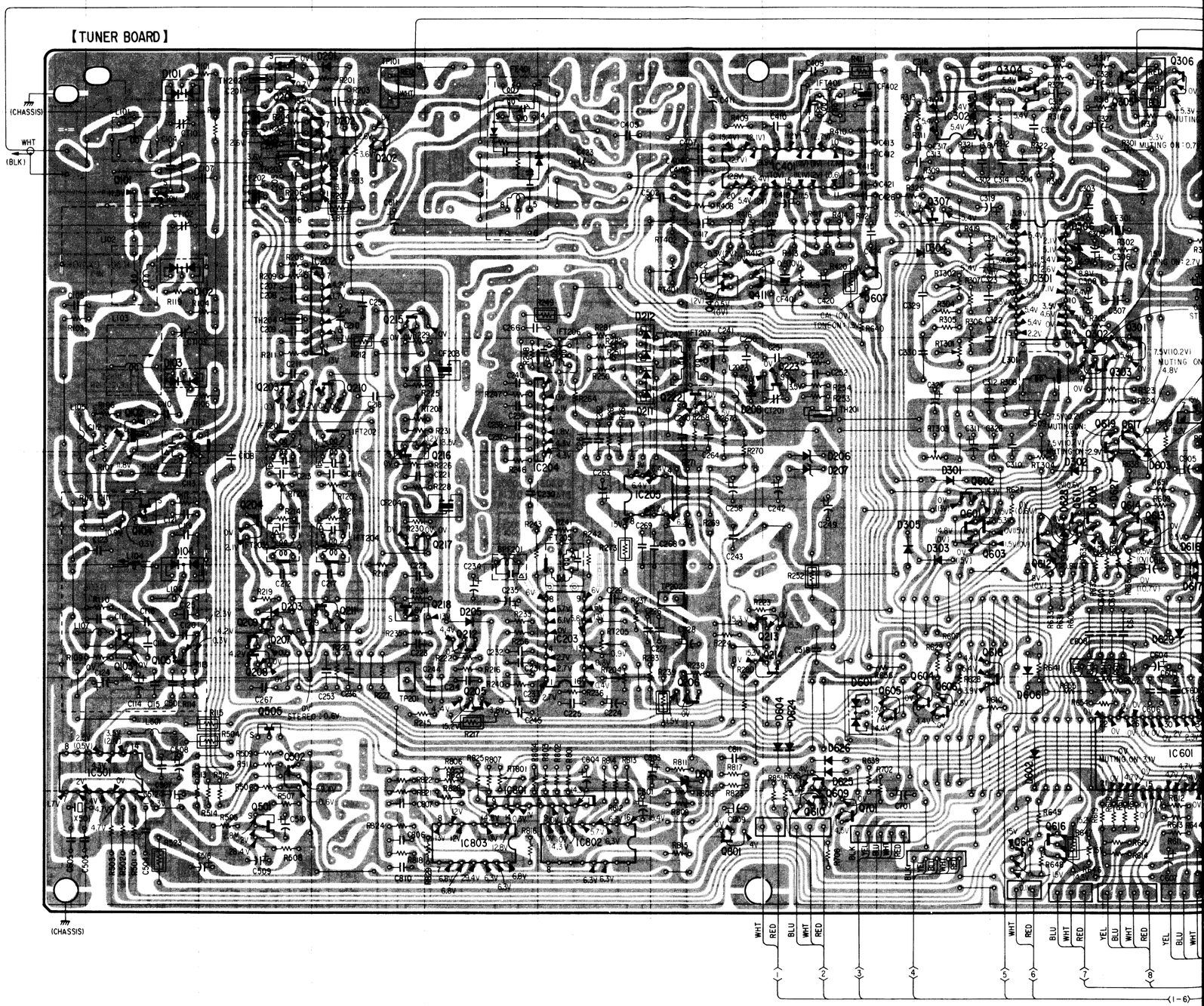
Note

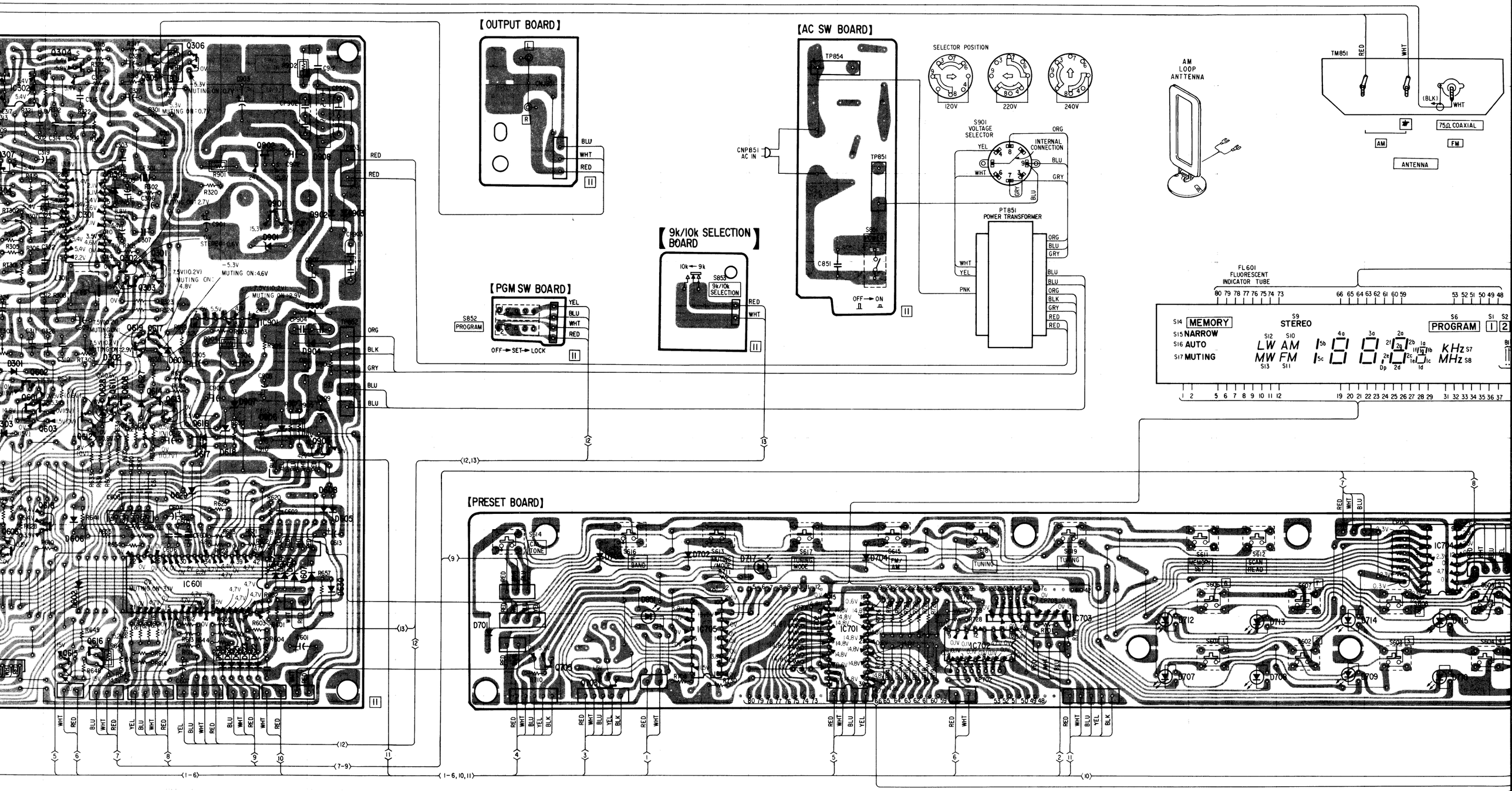
• Color code of sleeving over the end of the jacket.



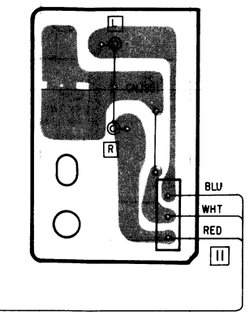
• ○— : parts extracted from the component side.

• ●— : parts extracted from the conductor side.

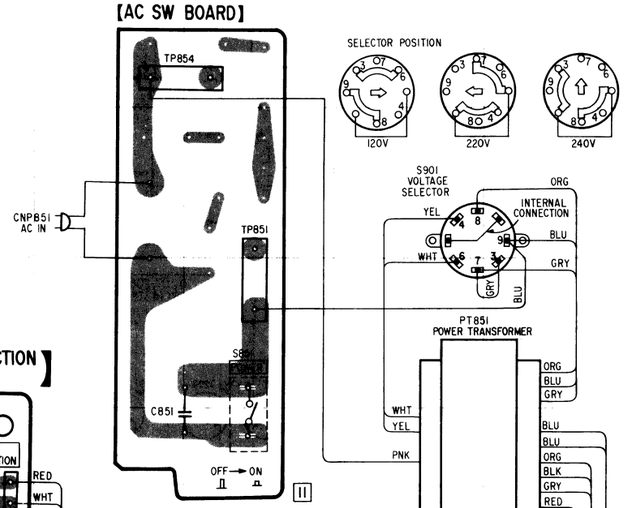



【OUTPUT BOARD】
【AC SW BOARD】
【9k/10k SELECTION BOARD】
【PGM SW BOARD】
【PRESET BOARD】
SELECTOR POSITION
120V
220V
240V
S901 VOLTAGE SELECTOR
INTERNAL CONNECTION
PT851 POWER TRANSFORMER
CNP851 AC IN
TP854
TP851
C851
S852 PROGRAM
OFF→SET→LOCK
S853 9k/10k SELECTION
10k←9k
AM LOOP ANTTENNA
TM851
75Ω COAXIAL
ANTENNA
FL601 FLUORESCENT INDICATOR TUBE
S14 MEMORY
S15 NARROW
S16 AUTO
S17 MUTING
S9 STEREO
S6 PROGRAM
LW AM
MW FM
KHz
MHz
IC601
IC701
IC702
IC703
IC704
D701
D702
D704
D707
D708
D709
D712
D713
D714
D715
S614 CALL TONE
S616 IF BAND
S617 TUNING MODE
S615 TUNING
S609 TUNING
S611 MEMORY SET
S612 SCAN RELAY
S601
S602
S603
S604
S605
S606
S607
S608
(1-6)
(1-6,10,11)
(7-9)
(10)
(12)
(12,13)
(13)

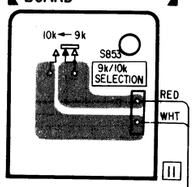
【OUTPUT BOARD】



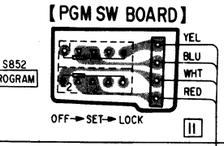
【AC SW BOARD】

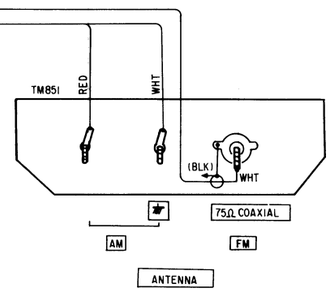


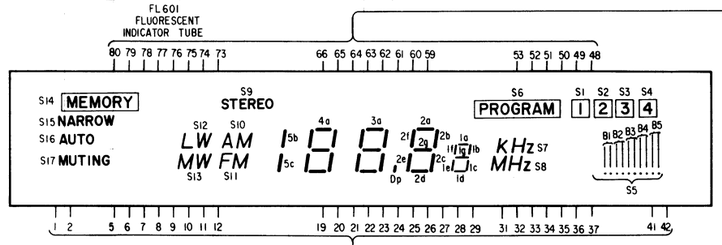
【9k/10k SELECTION BOARD】

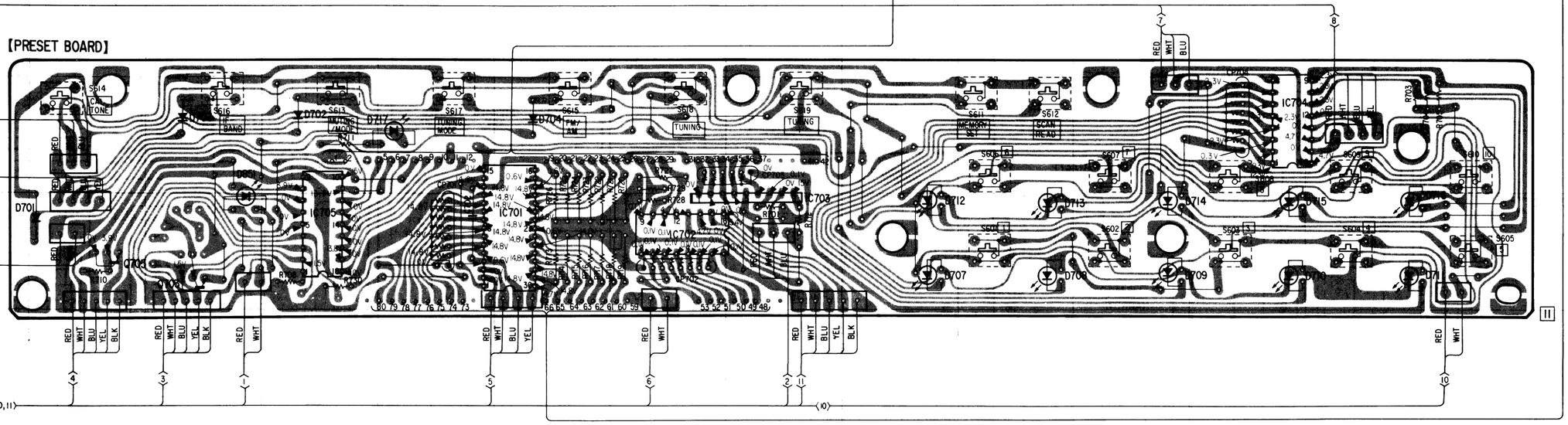


【PGM SW BOARD】









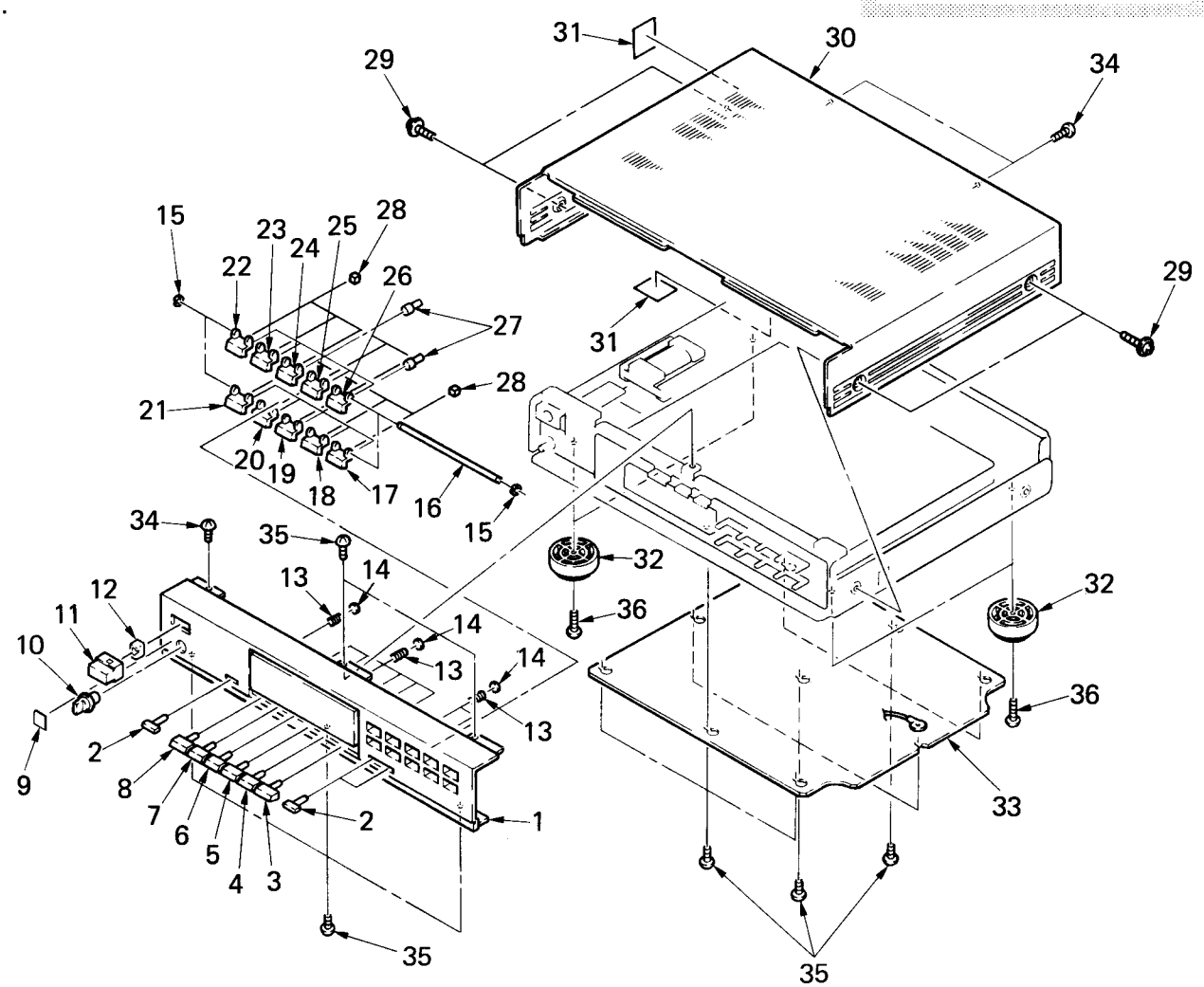
SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

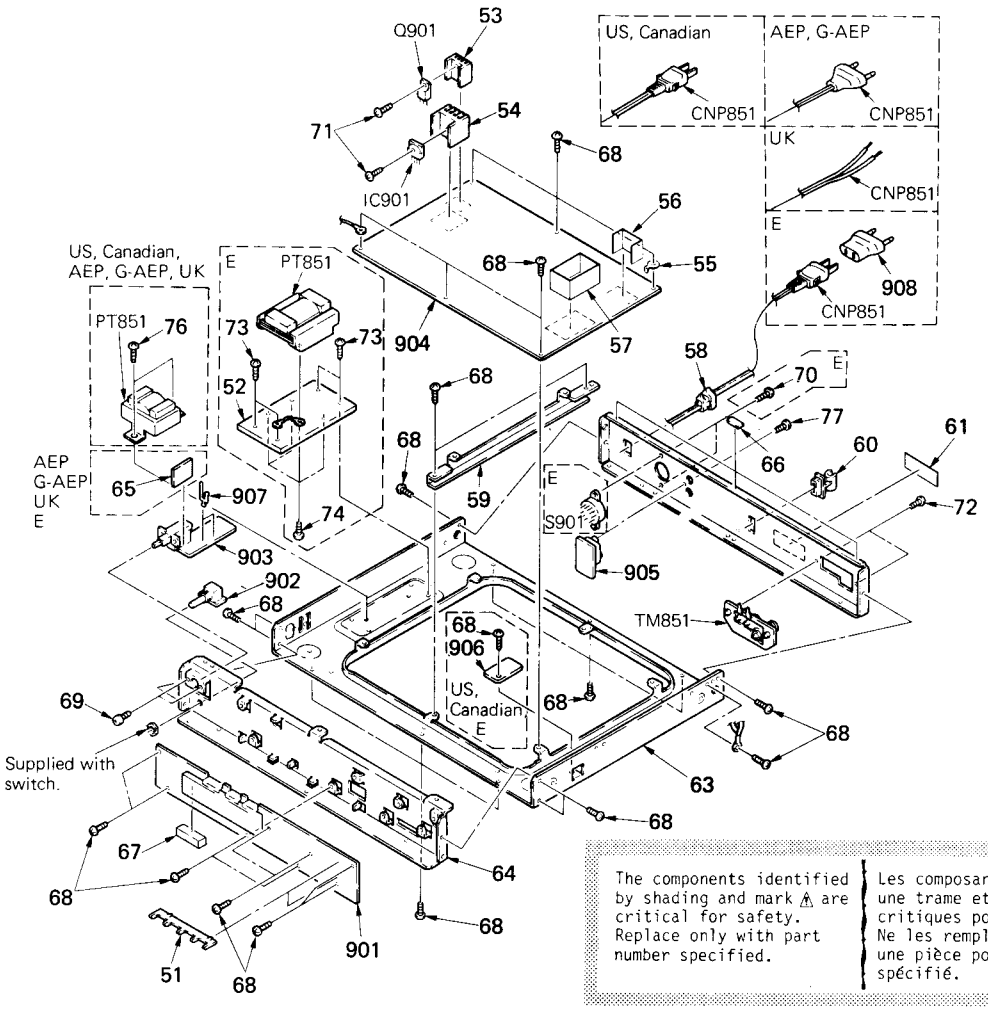
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1).



No.	Part No.	Description	Remarks
1	X-4886-017-1	(US,Canadian,AEP,G-AEP,UK)... PANEL ASSY, FRONT	
	X-4886-019-1	(E).....PANEL ASSY, FRONT	
2	4-908-027-01	BUTTON (C), SQUARE (CAL TONE, MEMORY SET, SCAN READ)	
3	4-908-022-51	BUTTON (D), SQUARE (+)	
4	4-908-022-41	BUTTON (D), SQUARE (-)	
5	4-908-022-31	(US,Canadian,E)..BUTTON (D), SQUARE(FM/AM)	
	4-908-022-61	(AEP,G-AEP,UK)... BUTTON (D), SQUARE(FM/MW/LW)	
6	4-908-022-21	BUTTON (D), SQUARE (TUNING MODE)	
7	4-908-022-11	BUTTON (D), SQUARE (MUTING/MODE)	
8	4-908-022-01	BUTTON (D), SQUARE (IF-BAND)	
9	3-703-713-41	STICKER, SONY SYMBOL (10)	
10	4-908-045-01	KNOB, ROUND (PROGRAM)	
11	4-908-046-01	KNOB, SQUARE (POWER)	
12	4-864-307-00	RING	
13	4-915-427-01	SPRING, COMPRESSION	
14	4-362-338-00	RING, STOPPER	
15	7-624-105-04	STOP RING 2.3, TYPE -E	
16	*4-908-029-01	SHAFT, JOINT	
17	4-908-035-91	BUTTON, PRESET (10)	
18	4-908-035-81	BUTTON, PRESET (9)	
19	4-908-035-71	BUTTON, PRESET (8)	
20	4-908-035-61	BUTTON, PRESET (7)	
21	4-908-035-51	BUTTON, PRESET (6)	
22	4-908-035-01	BUTTON, PRESET (1)	
23	4-908-035-11	BUTTON, PRESET (2)	
24	4-908-035-21	BUTTON, PRESET (3)	
25	4-908-035-31	BUTTON, PRESET (4)	
26	4-908-035-41	BUTTON, PRESET (5)	
27	*4-908-028-01	JOINT, KNOB	
28	*4-908-050-01	CUSHION	
29	4-847-802-00	SCREW	
30	4-908-043-01	CASE	
31	*3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL	
32	X-4886-009-1	FOOT ASSY	
33	*4-908-036-01	PLATE, BOTTOM	
34	3-703-108-21	SCREW +BV 3X6, S TIGHT	
35	7-682-147-09	SCREW +BVTT 3X6 (S)	
36	7-685-763-09	SCREW +BVTT 4X12 (S)	

(2).



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
51	*4-908-030-01	HOLDER, LED	
52	*4-908-063-01	BRACKET (C), TRANSFORMER	
53	*4-363-146-00	HEAT SINK, V.OUT	
54	*4-363-147-11	HEAT SINK, H.PIN	
55	4-870-539-00	PLATE, GROUND	
56	*4-911-325-01	PLATE (A), SHIELD	
57	*4-911-326-01	PLATE (B), SHIELD	
58	*3-703-244-00	(AEP,G-AEP,UK)....BUSHING (2104), CORD	
	3-703-571-11	(US,Canadian,E)...BUSHING (S)(4516), CORD	
59	*4-908-032-01	CHASSIS (M)	
60	*4-908-019-01	HOLDER (A), ANTENNA	
61	*4-908-065-01	(E).....LABEL, MODEL NUMBER (E2/E3)	
	*4-908-066-11	(AEP).....LABEL, MODEL NUMBER (AE)	
	*4-908-067-01	(UK).....LABEL, MODEL NUMBER (UK)	
	*4-908-068-01	(US,Canadian)...LABEL, MODEL NUMBER(U/CA)	
	*4-908-069-01	(G-AEP).....LABEL, MODEL NUMBER (AE4)	
62	*4-908-041-01	(US,Canadian,AEP,G-AEP,UK)...PLATE, JACK	
	*4-908-059-01	(E).....PLATE, JACK	
63	*4-908-042-01	CHASSIS, MAIN	
64	*4-908-040-01	CHASSIS, FRONT	
65	4-911-357-01	INSULATOR	
66	2-242-510-00	PAD, (C)	
67	4-908-075-11	CUSHION	
68	7-682-147-09	SCREW +BVTT 3X6 (S)	
69	7-682-647-01	SCREW +PS 3X6	
70	7-682-547-09	SCREW +B 3X6	
71	7-685-872-09	SCREW +BVTT 3X8 (S)	
72	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
73	7-685-873-01	SCREW +BVTT 3X10 (S)	
74	7-685-160-11	SCREW +P 4X10 TYPE2 NON-SLIT	
76	7-685-760-09	SCREW +BVTT 4X6	

No.	Part No.	Description	Remarks
77	3-703-473-00	(G-AEP)...SCREW, TERMINAL	
	7-685-646-79	(US,Canadian,AEP,UK,E)... SCREW +BVTT 3X8 TYPE2 N-S	
901	*1-618-531-11	PC BOARD, PRESET	
902	*1-618-534-11	PC BOARD, PGM SW	
903	*1-618-532-11	PC BOARD, AC SW	
904	*A-4351-543-A	(US,Canadian)...MOUNTED PCB, TUNER	
	*A-4351-544-A	(AEP,G-AEP).....MOUNTED PCB, TUNER	
	*A-4351-545-A	(UK).....MOUNTED PCB, TUNER	
	*A-4351-546-A	(E).....MOUNTED PCB, TUNER	
905	*1-618-530-11	PC BOARD, OUTPUT	
906	*1-618-533-11	(US,Canadian,E) ....PC BOARD, 9K/10K SELECTION	
907	1-535-416-00	TERMINAL	
908	⚠1-526-565-00	(E)..... AC PLUG ADAPTOR	
⚠CNP851	⚠1-555-795-00	(AEP,G-AEP).....CORD, POWER	
⚠CNP851	⚠1-556-035-00	(UK).....CORD, POWER	
⚠CNP851	⚠1-556-091-00	(E).....CORD, POWER	
⚠CNP851	⚠1-558-566-21	(US,Canadian)...CORD, POWER	
IC901	8-759-802-61	IC LA5666	
PT851	⚠1-448-636-11	(US,Canadian)....TRANSFORMER, POWER	
PT851	⚠1-448-637-11	(AEP,G-AEP,UK)...TRANSFORMER, POWER	
PT851	⚠1-448-638-11	(E).....TRANSFORMER, POWER	
Q901	8-729-382-63	TRANSISTOR 2SC1826-Y	
TM851	1-536-634-00	(US,Canadian,E)...TARMINAL BOARD(ANTENNA)	
TM851	1-536-851-21	(AEP,G-AEP,UK)....TARMINAL BOARD(ANTENNA)	
S901	⚠1-526-576-31	(E)..SELECTOR, POWER VOLTAGE	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-618-531-11	PC BOARD, PRESET			
902	*1-618-534-11	PC BOARD, PGM SW			
903	*1-618-532-11	PC BOARD, AC SW			
904	*A-4351-543-A	(US,Canadian)...MOUNTED PCB, TUNER			
	*A-4351-544-A	(AEP,UK).....MOUNTED PCB, TUNER			
	*A-4351-545-A	(G-AEP).....MOUNTED PCB, TUNER			
	*A-4351-546-A	(E).....MOUNTED PCB, TUNER			
905	*1-618-530-11	PC BOARD, OUTPUT			
906	*1-618-533-11	(US,Canadian,E) ....PC BOARD, 9K/10K SELECTION			
907	1-535-416-00	TERMINAL			
908	⚠1-526-565-00	AC PLUG ADAPTOR (E3 ONLY)			
BPF201	1-235-046-00	ENCAPSULATED COMPONENT (B.E.F)			
C104	1-162-195-31	CERAMIC	4.7PF	10%	50V
C105	1-162-306-31	CERAMIC	0.01MF	20%	16V
C107	1-101-005-00	CERAMIC	0.022MF		50V
C108	1-101-005-00	CERAMIC	0.022MF		50V
C110	1-162-196-31	CERAMIC	5.6PF	10%	50V
C111	1-162-199-31	CERAMIC	10PF	5%	50V
C112	1-162-282-31	CERAMIC	100PF	10%	50V
C113	1-162-306-31	CERAMIC	0.01MF	20%	16V
C114	1-123-617-00	ELECT	10MF	20%	16V
C115	1-162-306-31	CERAMIC	0.01MF	20%	16V
C116	1-162-199-31	CERAMIC	10PF	5%	50V
C117	1-162-195-31	CERAMIC	4.7PF	10%	50V
C118	1-162-206-31	CERAMIC	20PF	5%	50V
C119	1-162-197-31	CERAMIC	6.8PF	10%	50V
C120	1-162-187-31	CERAMIC	1PF	20%	50V
C121	1-162-191-31	CERAMIC	2.2PF	10%	50V
C123	1-162-306-31	CERAMIC	0.01MF	20%	16V
C124	1-123-333-00	ELECT	100MF	20%	16V
C125	1-101-005-00	CERAMIC	0.022MF		50V
C130	1-162-306-31	(US,Canadian)..CERAMIC	0.01MF	20%	16V
C201	1-162-306-31	CERAMIC	0.01MF	20%	16V
C202	1-162-306-31	CERAMIC	0.01MF	20%	16V
C203	1-162-306-31	CERAMIC	0.01MF	20%	16V
C204	1-162-306-31	CERAMIC	0.01MF	20%	16V
C205	1-162-306-31	CERAMIC	0.01MF	20%	16V
C206	1-162-306-31	CERAMIC	0.01MF	20%	16V
C207	1-162-306-31	CERAMIC	0.01MF	20%	16V
C208	1-162-306-31	CERAMIC	0.01MF	20%	16V
C209	1-162-306-31	CERAMIC	0.01MF	20%	16V
C210	1-162-306-31	CERAMIC	0.01MF	20%	16V
C211	1-162-306-31	CERAMIC	0.01MF	20%	16V
C212	1-162-306-31	CERAMIC	0.01MF	20%	16V
C213	1-162-195-31	CERAMIC	4.7PF	10%	50V
C214	1-162-306-31	CERAMIC	0.01MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C216	1-162-195-31	CERAMIC	4.7PF	10%	50V
C217	1-162-306-31	CERAMIC	0.01MF	20%	16V
C218	1-162-306-31	CERAMIC	0.01MF	20%	16V
C219	1-162-306-31	CERAMIC	0.01MF	20%	16V
C221	1-162-306-31	CERAMIC	0.01MF	20%	16V
C222	1-162-306-31	CERAMIC	0.01MF	20%	16V
C223	1-162-306-31	CERAMIC	0.01MF	20%	16V
C224	1-123-607-00	ELECT	0.1MF	20%	50V
C225	1-162-306-31	CERAMIC	0.01MF	20%	16V
C226	1-162-306-31	CERAMIC	0.01MF	20%	16V
C227	1-162-306-31	CERAMIC	0.01MF	20%	16V
C228	1-123-321-00	ELECT	220MF	20%	16V
C229	1-162-306-31	CERAMIC	0.01MF	20%	16V
C230	1-162-306-31	CERAMIC	0.01MF	20%	16V
C231	1-162-306-31	CERAMIC	0.01MF	20%	16V
C232	1-162-306-31	CERAMIC	0.01MF	20%	16V
C233	1-162-306-31	CERAMIC	0.01MF	20%	16V
C234	1-123-611-00	(AEP,G-AEP,UK,E)...ELECT	1MF	20%	50V
C234	1-123-612-00	(US,Canadian)...ELECT	2.2MF	20%	50V
C235	1-123-612-00	ELECT	2.2MF	20%	50V
C236	1-162-306-31	CERAMIC	0.01MF	20%	16V
C237	1-162-306-31	CERAMIC	0.01MF	20%	16V
C238	1-162-306-31	CERAMIC	0.01MF	20%	16V
C239	1-162-306-31	CERAMIC	0.01MF	20%	16V
C240	1-162-306-31	CERAMIC	0.01MF	20%	16V
C241	1-101-005-00	CERAMIC	0.022MF		50V
C242	1-123-308-00	ELECT	220MF	20%	10V
C243	1-123-343-00	ELECT	33MF	20%	25V
C244	1-162-306-31	CERAMIC	0.01MF	20%	16V
C245	1-162-306-31	CERAMIC	0.01MF	20%	16V
C247	1-162-306-31	CERAMIC	0.01MF	20%	16V
C249	1-123-336-00	ELECT	470MF	20%	25V
C250	1-110-195-00	MYLAR	0.001MF	5%	50V
C251	1-102-518-00	CERAMIC	33PF	5%	50V
C252	1-162-306-31	CERAMIC	0.01MF	20%	16V
C253	1-162-306-31	CERAMIC	0.01MF	20%	16V
C258	1-123-308-00	ELECT	220MF	20%	10V
C259	1-162-306-31	CERAMIC	0.01MF	20%	16V
C260	1-162-285-31	CERAMIC	180PF	10%	50V
C261	1-162-282-31	CERAMIC	100PF	10%	50V
C262	1-162-290-31	CERAMIC	470PF	10%	50V
C263	1-123-333-00	ELECT	100MF	20%	25V
C264	1-162-287-31	CERAMIC	270PF	10%	50V
C266	1-162-306-31	CERAMIC	0.01MF	20%	16V
C267	1-162-306-31	CERAMIC	0.01MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C268	1-162-287-31	CERAMIC 270PF 10% 50V
C268	1-162-290-31	(EXCEPT FOR G-AEP) ...CERAMIC 470PF 10% 50V
C269	1-162-215-31	(EXCEPT FOR G-AEP)..CERAMIC 47PF 5% 50V
C301	1-123-336-00	ELECT 470MF 20% 25V
C302	1-110-199-00	MYLAR 0.0022MF 5% 50V
C303	1-136-161-00	FILM 0.047MF 5% 50V
C304	1-110-199-00	MYLAR 0.0022MF 5% 50V
C305	1-123-610-00	ELECT 0.47MF 20% 50V
C306	1-123-611-00	ELECT 1MF 20% 50V
C307	1-123-611-00	ELECT 1MF 20% 50V
C308	1-123-611-00	ELECT 1MF 20% 50V
C309	1-123-607-00	ELECT 0.1MF 20% 50V
C310	1-136-153-00	FILM 0.01MF 5% 50V
C311	1-123-610-00	ELECT 0.47MF 20% 50V
C312	1-136-153-00	FILM 0.01MF 5% 50V
C313	1-136-155-00	FILM 0.015MF 5% 50V
C314	1-136-155-00	FILM 0.015MF 5% 50V
C315	1-110-197-00	MYLAR 0.0015MF 5% 50V
C316	1-136-161-00	FILM 0.047MF 5% 50V
C317	1-136-161-00	FILM 0.047MF 5% 50V
C318	1-110-197-00	MYLAR 0.0015MF 5% 50V
C319	1-123-323-00	ELECT 470MF 20% 16V
C321	1-123-611-00	ELECT 1MF 20% 50V
C322	1-104-271-00	(AEP,G-AEP,UK,E)... POLYSTYRENE 750PF 5% 50V
C322	1-108-556-00	(US,Canadian)... PE TEREPHTHALATE 0.0011MF 5% 50V
C323	1-104-271-00	(AEP,G-AEP,UK,E)... POLYSTYRENE 750PF 5% 50V
C323	1-108-556-00	(US,Canadian)... PE TEREPHTHALATE 0.0011MF 5% 50V
C324	1-123-610-00	ELECT 0.47MF 20% 50V
C326	1-136-153-00	FILM 0.01MF 5% 50V
C327	1-123-369-00	ELECT 4.7MF 20% 50V
C328	1-123-369-00	ELECT 4.7MF 20% 50V
C329	1-161-265-00	(EXCEPT FOR G-AEP)..CERAMIC 33PF 5% 50V
C330	1-161-265-00	(EXCEPT FOR G-AEP)..CERAMIC 33PF 5% 50V
C401	1-161-374-11	(AEP,G-AEP,UK) ...CERAMIC 0.0015MF 30% 16V
C402	1-161-374-11	(AEP,G-AEP,UK) ...CERAMIC 0.0015MF 30% 16V
C403	1-161-379-00	(AEP,G-AEP,UK)...CERAMIC 0.01MF 20% 25V
C404	1-161-379-00	(AEP,G-AEP,UK)...CERAMIC 0.01MF 20% 25V
C405	1-162-306-31	CERAMIC 0.01MF 20% 16V
C406	1-161-379-00	(AEP,G-AEP,UK)...CERAMIC 0.01MF 20% 25V
C407	1-162-306-31	CERAMIC 0.01MF 20% 16V
C408	1-162-306-31	CERAMIC 0.01MF 20% 16V
C409	1-162-306-31	CERAMIC 0.01MF 20% 16V
C410	1-162-306-31	CERAMIC 0.01MF 20% 16V
C411	1-123-332-00	ELECT 47MF 20% 16V
C412	1-162-306-31	CERAMIC 0.01MF 20% 16V
C413	1-162-306-31	CERAMIC 0.01MF 20% 16V
C415	1-123-611-00	ELECT 1MF 20% 50V
C416	1-162-306-31	CERAMIC 0.01MF 20% 16V
C417	1-123-620-00	ELECT 10MF 20% 35V
C418	1-123-611-00	ELECT 1MF 20% 50V
C419	1-162-306-31	CERAMIC 0.01MF 20% 16V
C420	1-123-333-00	ELECT 100MF 20% 16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C421	1-162-294-31	CERAMIC 0.001MF 10% 50V
C422	1-123-613-00	ELECT 3.3MF 20% 50V
C423	1-123-611-00	ELECT 1MF 20% 50V
C424	1-130-489-00	MYLAR 0.033MF 5% 50V
C427	1-124-247-00	(AEP,G-AEP,UK)...ELECT 10MF 20% 35V
C501	1-162-306-31	CERAMIC 0.01MF 20% 16V
C502	1-162-306-31	CERAMIC 0.01MF 20% 16V
C504	1-162-306-31	CERAMIC 0.01MF 20% 16V
C505	1-102-518-00	CERAMIC 33PF 5% 50V
C506	1-102-526-00	CERAMIC 75PF 5% 50V
C507	1-101-005-00	CERAMIC 0.022MF 50V
C508	1-123-617-00	ELECT 10MF 20% 16V
C509	1-123-620-00	ELECT 10MF 20% 35V
C510	1-123-613-00	ELECT 3.3MF 20% 50V
C511	1-123-607-00	ELECT 0.1MF 20% 50V
C512	1-123-902-00	ELECT 0.68MF 20% 50V
C513	1-124-247-00	(AEP,G-AEP,UK)...ELECT 10MF 20% 35V
C514	1-124-465-00	(AEP,G-AEP,UK)...ELECT 0.47MF 20% 50V
C515	1-124-252-00	(AEP,G-AEP,UK)...ELECT 0.33MF 20% 50V
C516	1-123-346-00	ELECT 220MF 20% 35V
C518	1-162-306-31	CERAMIC 0.01MF 20% 16V
C601	1-124-958-11	ELECT 39000MF 5.5V
C602	1-162-306-31	CERAMIC 0.01MF 20% 16V
C603	1-162-306-31	CERAMIC 0.01MF 20% 16V
C604	1-131-371-00	TANTALUM 10MF 10% 16V
C605	1-162-211-31	CERAMIC 33PF 5% 50V
C606	1-162-211-31	CERAMIC 33PF 5% 50V
C607	1-123-611-00	ELECT 1MF 20% 50V
C608	1-162-306-31	CERAMIC 0.01MF 20% 16V
C609	1-162-294-31	CERAMIC 0.001MF 10% 50V
C610	1-162-294-31	CERAMIC 0.001MF 10% 50V
C611	1-162-294-31	CERAMIC 0.001MF 10% 50V
C612	1-123-617-00	ELECT 10MF 20% 16V
C613	1-131-371-00	TANTALUM 10MF 10% 16V
C701	1-123-622-00	ELECT 22MF 20% 16V
C702	1-162-303-31	CERAMIC 0.0033MF 30% 16V
C801	1-123-617-00	ELECT 10MF 20% 16V
C803	1-123-617-00	ELECT 10MF 20% 16V
C804	1-123-617-00	ELECT 10MF 20% 16V
C806	1-110-199-00	MYLAR 0.0022MF 5% 50V
C807	1-162-291-31	CERAMIC 560PF 10% 50V
C809	1-123-332-00	ELECT 47MF 20% 16V
C810	1-110-195-00	MYLAR 0.001MF 5% 50V
C811	1-124-282-00	ELECT(NON POLAR)22MF 20% 25V
C851 ⚠	1-161-744-00	CERAMIC 0.01MF 400V
C852 ⚠	1-161-742-51	(G-AEP)...CERAMIC 0.0022MF 20% 400V
C854 ⚠	1-161-742-51	(G-AEP)...CERAMIC 0.0022MF 20% 400V
C901	1-123-336-00	ELECT 470MF 20% 25V
C902	1-123-333-00	ELECT 100MF 20% 16V
C903	1-125-433-11	ELECT(BLOCK) 2200MF 20% 35V
C904	1-123-306-00	ELECT 47MF 20% 10V
C905	1-123-333-00	ELECT 100MF 20% 16V
C906	1-123-306-00	ELECT 47MF 20% 10V
C907	1-123-349-00	ELECT 1000MF 20% 35V
C908	1-123-360-00	ELECT 100MF 20% 50V
C909	1-123-359-00	ELECT 47MF 20% 35V
C910	1-123-345-00	ELECT 100MF 20% 35V
C911	1-123-362-00	ELECT 330MF 20% 50V
C912	1-130-789-00	FILM 1MF 5% 100V

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
CF201	1-567-393-11	FILTER, CERAMIC
CF202	1-567-393-11	FILTER, CERAMIC
CF203	1-527-968-11	FILTER, CERAMIC
CF204	1-527-968-11	FILTER, CERAMIC
CF301	1-567-250-11	OSCILLATOR, CERAMIC
CF401	1-527-981-00	FILTER, CERAMIC
CF402	1-527-826-00	FILTER, CERAMIC
CF601	1-567-192-11	OSCILLATOR, CERAMIC
CNJ851	1-507-912-11	JACK, PIN 2P
⚠CNP851	1-555-785-00	(AEP,G-AEP).....CORD, POWER
⚠CNP851	1-556-036-00	(UK).....CORD, POWER
⚠CNP851	1-556-091-00	(E).....CORD, POWER
⚠CNP851	1-558-566-21	(US,Canadian)...CORD, POWER
CP701	1-233-021-11	COMPOSITION CIRCUIT BLOCK
CP702	1-233-022-11	COMPOSITION CIRCUIT BLOCK
CP703	1-233-020-11	COMPOSITION CIRCUIT BLOCK
CP704	1-233-021-11	COMPOSITION CIRCUIT BLOCK
CP901	1-102-394-00	CERAMIC 0.01MF 250V
CP902	1-102-394-00	CERAMIC 0.01MF 250V
CP903	1-102-394-00	CERAMIC 0.01MF 250V
CP904	1-102-394-00	CERAMIC 0.01MF 250V
CT101	1-141-304-11	CAP, TRIMMER, CERAMIC
CT102	1-141-304-11	CAP, TRIMMER, CERAMIC
CT103	1-141-304-11	CAP, TRIMMER, CERAMIC
CT201	1-141-232-00	CAP, TRIMMER
D101	8-719-901-59	DIODE KV1320
D102	8-719-901-59	DIODE KV1320
D103	8-719-901-59	DIODE KV1320
D104	8-719-901-59	DIODE KV1320
D201	8-719-940-76	DIODE 1SS132
D202	8-719-940-76	DIODE 1SS132
D203	8-719-940-76	DIODE 1SS132
D205	8-719-940-76	DIODE 1SS132
D206	8-719-910-72	DIODE HZ7A2L
D207	8-719-910-72	DIODE HZ7A2L
D208	8-719-936-88	DIODE SVC333
D211	8-719-000-12	DIODE MC931
D212	8-719-000-12	DIODE MC931
D301	8-719-940-76	DIODE 1SS132
D302	8-719-940-76	DIODE 1SS132
D303	8-719-940-76	DIODE 1SS132
D304	8-719-940-76	DIODE 1SS132
D305	8-719-940-76	DIODE 1SS132
D306	8-719-940-76	DIODE 1SS132
D601	8-719-000-06	DIODE MC921
D602	8-719-940-76	DIODE 1SS132
D603	8-719-940-76	DIODE 1SS132
D604	8-719-940-76	DIODE 1SS132
D605	8-719-940-76	DIODE 1SS132
D606	8-719-940-76	DIODE 1SS132
D607	8-719-940-76	(US,Canadian,E)..DIODE 1SS132
D608	8-719-940-76	DIODE 1SS132
D609	8-719-940-76	(AEP,G-AEP,UK)...DIODE 1SS132
D610	8-719-940-76	(AEP,G-AEP,UK)...DIODE 1SS132
D613	8-719-940-76	(AEP,G-AEP,UK,E)...DIODE 1SS132
D614	8-719-940-76	DIODE 1SS132
D615	8-719-940-76	DIODE 1SS132
D616	8-719-940-76	DIODE 1SS132
D617	8-719-940-76	DIODE 1SS132
D618	8-719-951-12	DIODE HZ5BLL

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D619	8-719-940-76	DIODE 1SS132
D620	8-719-940-76	DIODE 1SS132
D621	8-719-940-76	DIODE 1SS132
D622	8-719-940-76	DIODE 1SS132
D623	8-719-940-76	DIODE 1SS132
D624	8-719-940-76	DIODE 1SS132
D625	8-719-940-76	DIODE 1SS132
D626	8-719-940-76	DIODE 1SS132
D627	8-719-940-76	DIODE 1SS132
D628	8-719-940-76	DIODE 1SS132
D629	8-719-940-76	DIODE 1SS132
D630	8-719-940-76	DIODE 1SS132
D701	8-719-940-76	DIODE 1SS132
D702	8-719-940-76	DIODE 1SS132
D703	8-719-940-76	DIODE 1SS132
D704	8-719-940-76	DIODE 1SS132
D705	8-719-940-76	(AEP,G-AEP,UK)...DIODE 1SS132
D706	8-719-940-76	(AEP,G-AEP,UK)...DIODE 1SS132
D707	8-719-301-52	DIODE SEL2810A-C
D708	8-719-301-52	DIODE SEL2810A-C
D709	8-719-301-52	DIODE SEL2810A-C
D710	8-719-301-52	DIODE SEL2810A-C
D711	8-719-301-52	DIODE SEL2810A-C
D712	8-719-301-52	DIODE SEL2810A-C
D713	8-719-301-52	DIODE SEL2810A-C
D714	8-719-301-52	DIODE SEL2810A-C
D715	8-719-301-52	DIODE SEL2810A-C
D716	8-719-301-52	DIODE SEL2810A-C
D717	8-719-301-52	DIODE SEL2810A-C
D801	8-719-910-72	DIODE HZ7A-2L
D851	8-719-301-43	DIODE SEL2410E-C
D901	8-719-901-62	DIODE HZ16-2L
D902	8-719-200-77	DIODE 10E2N
D903	8-719-200-77	DIODE 10E2N
D904	8-719-200-77	DIODE 10E2N
D905	8-719-200-77	DIODE 10E2N
D906	8-719-913-02	DIODE HZ30-2L
D907	8-719-910-62	DIODE HZ6A2L
D908	8-719-511-20	DIODE S1VB20
FE401	1-235-812-11	MW RF BLOCK
FE402	1-235-893-11	(AEP,G-AEP,UK)...LW RF BLOCK
FL601	1-519-385-11	INDICATOR TUBE, FLUORESCENT
IC201	8-759-111-63	IC UPC1163H
IC202	8-759-111-63	IC UPC1163H
IC203	8-759-812-35	IC LA1235
IC204	8-759-111-63	IC UPC1163H
IC205	8-759-990-82	IC TL082CP
IC301	8-759-802-57	IC CXA1064S
IC302	8-759-745-60	IC NJM4560D
IC401	8-759-812-45	IC LA1245
IC501	8-759-925-20	IC CX7925B
IC601	8-759-202-03	IC TMP47C40N-6308
IC701	8-759-206-71	IC TD6301AN
IC702	8-759-202-07	IC TC9174P
IC703	8-759-800-95	IC LB1493
IC704	8-759-901-45	IC SN74LS145N
IC705	8-759-812-90	IC LB1290
IC801	8-759-800-95	IC LB1493

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC802	8-759-240-51	IC TC4051BP
IC803	8-759-132-40	IC UPC324C
IC901	8-759-802-61	IC LA5666
IFT101	1-404-666-11	COIL, FM IFT
IFT201	1-404-664-11	COIL, FM IFT (1)
IFT202	1-404-664-11	COIL, FM IFT (1)
IFT203	1-404-665-11	COIL, FM IFT (2)
IFT204	1-404-665-11	COIL, FM IFT (2)
IFT205	1-404-669-11	COIL, DISCRIMINATOR
IFT206	1-404-668-11	COIL, FM DET (1)
IFT207	1-404-667-11	COIL, FM DET (2)
IFT401	1-404-326-00	TRANSFORMER, IF
L101	1-459-617-11	COIL
L102	1-426-249-11	COIL (RF)
L103	1-459-647-11	COIL (WITH CORE)
L104	1-459-618-11	COIL
L105	1-408-555-00	MICRO INDUCTOR 2.2UH
L106	1-408-555-00	MICRO INDUCTOR 2.2UH
L107	1-407-176-XX	MICRO INDUCTOR 390UH
L202	1-408-577-11	MICRO INDUCTOR 150UH
L301	1-409-413-11	COIL (TUNING)
L401	1-408-579-00	(AEP,G-AEP,UK)...MICRO INDUCTOR 220UH
L402	1-408-575-00	(AEP,G-AEP,UK)...MICRO INDUCTOR 100UH
L501	1-408-575-00	MICRO INDUCTOR 100UH
LPF201	1-235-892-11	(G-AEP)...FILTER, LOWPASS
⚠PT851	1-448-636-11	(US,Canadian)...TRANSFORMER, POWER
⚠PT851	1-448-637-11	(AEP,G-AEP,UK)...TRANSFORMER, POWER
⚠PT851	1-448-638-11	(E).....TRANSFORMER, POWER
Q101	8-729-200-55	TRANSISTOR 2SK241Y
Q102	8-729-103-29	TRANSISTOR 3SK74-K
Q103	8-729-216-13	TRANSISTOR 2SK161GR
Q104	8-729-216-13	TRANSISTOR 2SK161GR
Q105	8-729-201-93	TRANSISTOR 2SC2995-O
Q201	8-729-800-43	TRANSISTOR 2SK152-3
Q202	8-729-900-89	TRANSISTOR DTC144ES
Q203	8-729-900-74	TRANSISTOR DTC143TS
Q204	8-729-900-74	TRANSISTOR DTC143TS
Q205	8-729-201-96	TRANSISTOR 2SC380TMY
Q206	8-729-606-33	TRANSISTOR 2SC2603F
Q207	8-729-900-74	TRANSISTOR DTC143TS
Q208	8-729-900-74	TRANSISTOR DTC143TS
Q209	8-729-900-80	TRANSISTOR DTC114ES
Q210	8-729-900-74	TRANSISTOR DTC143TS
Q211	8-729-900-74	TRANSISTOR DTC143TS
Q212	8-729-900-80	TRANSISTOR DTC114ES
Q213	8-729-900-65	TRANSISTOR DTA144ES
Q214	8-729-900-74	TRANSISTOR DTC143TS
Q215	8-729-900-83	TRANSISTOR DTC124XS
Q216	8-729-200-55	TRANSISTOR 2SK241-Y
Q217	8-729-900-83	TRANSISTOR DTC124XS
Q218	8-729-200-55	TRANSISTOR 2SK241-Y
Q222	8-729-224-62	TRANSISTOR 2SK246GR
Q223	8-729-802-43	TRANSISTOR 2SK125-3
Q301	8-729-900-89	TRANSISTOR DTC144ES
Q302	8-729-900-74	TRANSISTOR DTC143TS
Q303	8-729-900-65	TRANSISTOR DTA144ES
Q304	8-729-224-62	TRANSISTOR 2SK246GR
Q305	8-729-107-98	TRANSISTOR 2SC3622A-L
Q306	8-729-107-98	TRANSISTOR 2SC3622A-L

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q307	8-729-224-62	TRANSISTOR 2SK246GR
Q401	8-729-900-83	(AEP,G-AEP,UK)...TRANSISTOR DTC124XS
Q402	8-729-900-83	(AEP,G-AEP,UK)...TRANSISTOR DTC124XS
Q403	8-729-107-98	(AEP,G-AEP,UK)...TRANSISTOR 2SC3622A-L
Q404	8-729-110-68	(AEP,G-AEP,UK)...TRANSISTOR 2SA1409-L
Q405	8-729-900-89	(AEP,G-AEP,UK)...TRANSISTOR DTC144ES
Q406	8-729-216-13	(AEP,G-AEP,UK)...TRANSISTOR 2SK161GR
Q407	8-729-900-83	(AEP,G-AEP,UK)...TRANSISTOR DTC124XS
Q408	8-729-216-13	(AEP,G-AEP,UK)...TRANSISTOR 2SK161GR
Q409	8-729-900-83	(AEP,G-AEP,UK)...TRANSISTOR DTC124XS
Q410	8-729-216-13	TRANSISTOR 2SK161GR
Q411	8-729-900-74	TRANSISTOR DTC143TS
Q501	8-729-203-05	TRANSISTOR 2SK30AGR3
Q502	8-729-600-27	TRANSISTOR 2SC634SP
Q503	8-729-203-05	(AEP,G-AEP,UK)...TRANSISTOR 2SK30AGR3
Q504	8-729-600-27	(AEP,G-AEP,UK)...TRANSISTOR 2SC634SP
Q505	8-729-203-05	TRANSISTOR 2SK30AGR3
Q601	8-729-900-61	TRANSISTOR DTA114ES
Q602	8-729-900-80	TRANSISTOR DTC114ES
Q603	8-729-900-74	TRANSISTOR DTC143TS
Q604	8-729-107-98	(US,Canadian,E)...TRANSISTOR 2SC3622A-L
Q605	8-729-606-33	TRANSISTOR 2SC2603F
Q606	8-729-606-33	TRANSISTOR 2SC2603F
Q607	8-729-900-74	TRANSISTOR DTC143TS
Q608	8-729-606-33	TRANSISTOR 2SC2603F
Q609	8-729-900-89	TRANSISTOR DTC144ES
Q610	8-729-900-89	TRANSISTOR DTC144ES
Q611	8-729-606-33	TRANSISTOR 2SC2603F
Q612	8-729-900-83	TRANSISTOR DTC124XS
Q613	8-729-606-33	TRANSISTOR 2SC2603F
Q614	8-729-606-33	TRANSISTOR 2SC2603F
Q615	8-729-900-61	TRANSISTOR DTA114ES
Q616	8-729-117-54	TRANSISTOR 2SA1175
Q617	8-729-900-61	TRANSISTOR DTA114ES
Q618	8-729-900-74	TRANSISTOR DTC143TS
Q619	8-729-900-61	TRANSISTOR DTA114ES
Q701	8-729-900-80	TRANSISTOR DTC114ES
Q702	8-729-900-74	(AEP,G-AEP,UK)...TRANSISTOR DTC143TS
Q703	8-729-900-74	TRANSISTOR DTC143TS
Q704	8-729-900-74	(AEP,G-AEP,UK)...TRANSISTOR DTC143TS
Q705	8-729-900-74	TRANSISTOR DTC143TS
Q801	8-729-900-74	TRANSISTOR DTC143TS
Q901	8-729-382-63	TRANSISTOR 2SC1826-Y
Q902	8-729-201-56	TRANSISTOR 2SK246GR2
Q903	8-729-805-13	TRANSISTOR 2SC1475-13

R101	1-247-873-00	CARBON	56K	5%	1/6W
R102	1-249-437-11	CARBON	47K	5%	1/6W
R103	1-249-405-11	CARBON	100	5%	1/6W
R104	1-247-873-00	CARBON	56K	5%	1/6W
R105	1-249-441-11	CARBON	100K	5%	1/6W
R106	1-249-441-11	CARBON	100K	5%	1/6W
R107	1-249-441-11	CARBON	100K	5%	1/6W
R108	1-249-405-11	CARBON	100	5%	1/6W
R109	1-249-405-11	CARBON	100	5%	1/6W
R110	1-247-859-00	CARBON	15K	5%	1/6W
R111	1-249-437-11	CARBON	47K	5%	1/6W
R112	1-247-819-00	CARBON	330	5%	1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R113	1-247-893-00	CARBON	390K	5%	1/6W	
R114	1-249-405-11	CARBON	100	5%	1/6W	
R115 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R117	1-247-795-00	CARBON	33	5%	1/6W	
R118	1-247-873-00	CARBON	56K	5%	1/6W	
R119	1-247-873-00	CARBON	56K	5%	1/6W	
R201	1-247-811-00	CARBON	150	5%	1/6W	
R203	1-247-819-00	CARBON	330	5%	1/6W	
R204	1-249-405-11	CARBON	100	5%	1/6W	
R205	1-247-819-00	CARBON	330	5%	1/6W	
R206	1-247-819-00	CARBON	330	5%	1/6W	
R207 ⚠	1-247-113-00	CARBON	180	5%	1/4W	F
R208	1-249-405-11	CARBON	100	5%	1/6W	
R209	1-247-819-00	CARBON	330	5%	1/6W	
R211	1-247-819-00	CARBON	330	5%	1/6W	
R212 ⚠	1-247-113-00	CARBON	180	5%	1/4W	F
R213	1-249-405-11	CARBON	100	5%	1/6W	
R214	1-249-422-11	CARBON	2.7K	5%	1/6W	
R215	1-249-434-11	CARBON	27K	5%	1/6W	
R216	1-249-417-11	CARBON	1K	5%	1/6W	
R217 ⚠	1-247-083-00	CARBON	10	5%	1/4W	F
R218	1-249-429-11	CARBON	10K	5%	1/6W	
R219	1-249-425-11	CARBON	4.7K	5%	1/6W	
R220	1-247-853-00	CARBON	8.2K	5%	1/6W	
R221	1-249-422-11	CARBON	2.7K	5%	1/6W	
R222	1-249-429-11	CARBON	10K	5%	1/6W	
R223	1-249-429-11	CARBON	10K	5%	1/6W	
R224	1-249-429-11	CARBON	10K	5%	1/6W	
R225	1-247-819-00	CARBON	330	5%	1/6W	
R226	1-249-405-11	CARBON	100	5%	1/6W	
R227	1-249-405-11	CARBON	100	5%	1/6W	
R228	1-247-819-00	CARBON	330	5%	1/6W	
R229	1-249-429-11	CARBON	10K	5%	1/6W	
R230	1-247-819-00	CARBON	330	5%	1/6W	
R231	1-247-787-00	CARBON	15	5%	1/6W	
R233	1-249-441-11	CARBON	100K	5%	1/6W	
R234	1-249-441-11	CARBON	100K	5%	1/6W	
R235	1-247-819-00	CARBON	330	5%	1/6W	
R236	1-247-873-00	CARBON	56K	5%	1/6W	
R237	1-249-437-11	CARBON	47K	5%	1/6W	
R238	1-249-433-11	CARBON	22K	5%	1/6W	
R239 ⚠	1-247-109-00	CARBON	120	5%	1/4W	F
R240	1-247-819-00	CARBON	330	5%	1/6W	
R241	1-249-429-11	(US,Canadian).....CARBON	10K	5%	1/6W	
R241	1-249-430-11	(AEP,UK,G-AEP,E)..CARBON	12K	5%	1/6W	
R242	1-249-429-11	(AEP,G-AEP,UK,E)..CARBON	10K	5%	1/6W	
R242	1-249-430-11	(US,Canadian).....CARBON	4.7K	5%	1/6W	
R243	1-249-417-11	CARBON	1K	5%	1/6W	
R246	1-249-421-11	CARBON	2.2K	5%	1/6W	
R247	1-247-819-00	CARBON	330	5%	1/6W	
R248	1-249-417-11	CARBON	1K	5%	1/6W	
R249 ⚠	1-247-113-00	CARBON	180	5%	1/4W	F
R250	1-249-417-11	CARBON	1K	5%	1/6W	
R251	1-249-417-11	CARBON	1K	5%	1/6W	
R252 ⚠	1-247-111-00	CARBON	150	5%	1/4W	F
R253	1-247-817-00	CARBON	270	5%	1/6W	

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R254	1-247-815-00	CARBON	220	5%	1/6W	
R255	1-249-441-11	CARBON	100K	5%	1/6W	
R256	1-249-432-11	CARBON	18K	5%	1/6W	
R264	1-249-417-11	CARBON	1K	5%	1/6W	
R265	1-249-434-11	CARBON	27K	5%	1/6W	
R266	1-249-429-11	CARBON	10K	5%	1/6W	
R267	1-247-903-00	CARBON	1M	5%	1/6W	
R268	1-249-429-11	CARBON	10K	5%	1/6W	
R269	1-247-823-00	CARBON	470	5%	1/6W	
R270	1-249-422-11	CARBON	2.7K	5%	1/6W	
R271	1-247-849-00	CARBON	5.6K	5%	1/6W	
R273 ⚠	1-247-107-00	CARBON	100	5%	1/4W	F
R280	1-249-433-11	CARBON	22K	5%	1/6W	
R281	1-249-417-11	CARBON	1K	5%	1/6W	
R282	1-249-417-11	CARBON	1K	5%	1/6W	
R283	1-249-433-11	CARBON	22K	5%	1/6W	
R301 ⚠	1-249-520-11	CARBON	47		1/4W	
R302	1-249-423-11	CARBON	3.3K	5%	1/6W	
R303	1-249-429-11	CARBON	10K	5%	1/6W	
R304	1-247-887-00	CARBON	220K	5%	1/6W	
R305	1-247-887-00	CARBON	220K	5%	1/6W	
R306	1-247-875-00	CARBON	68K	5%	1/6W	
R307	1-247-875-00	CARBON	68K	5%	1/6W	
R308	1-247-851-00	CARBON	6.8K	5%	1/6W	
R309	1-249-417-11	CARBON	1K	5%	1/6W	
R310	1-249-417-11	CARBON	1K	5%	1/6W	
R311	1-249-417-11	CARBON	1K	5%	1/6W	
R312	1-249-417-11	CARBON	1K	5%	1/6W	
R313	1-249-417-11	CARBON	1K	5%	1/6W	
R314	1-249-417-11	CARBON	1K	5%	1/6W	
R315	1-249-417-11	CARBON	1K	5%	1/6W	
R316	1-249-417-11	CARBON	1K	5%	1/6W	
R317	1-249-437-11	CARBON	47K	5%	1/6W	
R318	1-249-437-11	CARBON	47K	5%	1/6W	
R319	1-249-417-11	CARBON	1K	5%	1/6W	
R320	1-249-417-11	CARBON	1K	5%	1/6W	
R321	1-247-795-00	CARBON	33	5%	1/6W	
R322	1-247-795-00	CARBON	33	5%	1/6W	
R323	1-249-441-11	CARBON	100K	5%	1/6W	
R324	1-249-441-11	CARBON	100K	5%	1/6W	
R326	1-249-429-11	CARBON	10K	5%	1/6W	
R327	1-247-903-00	CARBON	1M	5%	1/6W	
R401	1-215-493-00	(AEP,G-AEP,UK)...CARBON	1M	5%	1/4W	
R402	1-249-429-11	(AEP,G-AEP,UK)...CARBON	10K	5%	1/6W	
R403	1-249-433-11	(AEP,G-AEP,UK)...CARBON	22K	5%	1/6W	
R404	1-249-433-11	(AEP,G-AEP,UK)...CARBON	22K	5%	1/6W	
R405	1-249-421-11	(AEP,G-AEP,UK)...CARBON	2.2K	5%	1/6W	
R406	1-249-417-11	(AEP,G-AEP,UK)...CARBON	1K	5%	1/6W	
R407	1-249-441-11	(AEP,G-AEP,UK)...CARBON	100K	5%	1/6W	
R408	1-249-429-11	CARBON	10K	5%	1/6W	
R409	1-249-421-11	CARBON	2.2K	5%	1/6W	
R410	1-249-422-11	CARBON	2.7K	5%	1/6W	
R411 ⚠	1-247-115-00	CARBON	220	5%	1/4W	F
R412	1-247-845-00	CARBON	3.9K	5%	1/6W	
R413	1-247-805-00	CARBON	82	5%	1/6W	
R414	1-249-405-11	CARBON	100	5%	1/6W	
R415	1-247-823-00	CARBON	470	5%	1/6W	
R416	1-249-429-11	CARBON	10K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R417	1-249-429-11	CARBON	10K	5%	1/6W
R418	1-247-903-00	CARBON	1M	5%	1/6W
R419	1-249-432-11	CARBON	18K	5%	1/6W
R420 ⚠	1-247-111-00	CARBON	150	5%	1/4W F
R421	1-249-429-11	CARBON	10K	5%	1/6W
R423	1-249-437-11	(AEP,G-AEP,UK)...CARBON	47K	5%	1/6W
R424	1-249-417-11	(AEP,G-AEP,UK)...CARBON	1K	5%	1/6W
R501	1-249-429-11	CARBON	10K	5%	1/6W
R502	1-249-429-11	CARBON	10K	5%	1/6W
R503	1-249-429-11	CARBON	10K	5%	1/6W
R504 ⚠	1-247-695-11	CARBON	39	5%	1/4W F
R505	1-249-414-11	CARBON	560	5%	1/6W
R506	1-247-819-00	CARBON	330	5%	1/6W
R507	1-247-833-00	CARBON	1.2K	5%	1/6W
R508	1-249-414-11	CARBON	560	5%	1/6W
R509	1-249-420-11	CARBON	1.8K	5%	1/6W
R511	1-249-419-11	CARBON	1.5K	5%	1/6W
R512	1-249-425-11	CARBON	4.7K	5%	1/6W
R513	1-249-425-11	CARBON	4.7K	5%	1/6W
R514	1-249-415-11	CARBON	680	5%	1/6W
R515	1-249-429-11	(AEP,G-AEP,UK)...CARBON	10K	5%	1/6W
R516	1-249-411-11	(AEP,G-AEP,UK)...CARBON	330	5%	1/6W
R517	1-249-418-11	(AEP,G-AEP,UK)...CARBON	1.2K	5%	1/6W
R518	1-249-414-11	(AEP,G-AEP,UK)...CARBON	560	5%	1/6W
R519	1-247-891-00	(AEP,G-AEP,UK)...CARBON	330K	5%	1/6W
R520	1-249-427-11	(AEP,G-AEP,UK)...CARBON	6.8K	5%	1/6W
R521	1-249-425-11	(AEP,G-AEP,UK)...CARBON	4.7K	5%	1/6W
R523 ⚠	1-247-113-00	CARBON	180	5%	1/4W F
R601	1-249-429-11	CARBON	10K	5%	1/6W
R602	1-249-429-11	CARBON	10K	5%	1/6W
R603	1-249-429-11	CARBON	10K	5%	1/6W
R604	1-249-429-11	CARBON	10K	5%	1/6W
R605	1-249-429-11	CARBON	10K	5%	1/6W
R606	1-249-429-11	CARBON	10K	5%	1/6W
R607	1-249-429-11	CARBON	10K	5%	1/6W
R608	1-249-429-11	CARBON	10K	5%	1/6W
R609	1-249-429-11	CARBON	10K	5%	1/6W
R610	1-249-429-11	CARBON	10K	5%	1/6W
R611	1-249-429-11	CARBON	10K	5%	1/6W
R612	1-249-429-11	CARBON	10K	5%	1/6W
R613	1-249-429-11	CARBON	10K	5%	1/6W
R614	1-249-429-11	CARBON	10K	5%	1/6W
R615	1-249-429-11	CARBON	10K	5%	1/6W
R616	1-249-429-11	CARBON	10K	5%	1/6W
R617	1-249-429-11	CARBON	10K	5%	1/6W
R618	1-249-429-11	CARBON	10K	5%	1/6W
R619	1-249-429-11	CARBON	10K	5%	1/6W
R620	1-249-429-11	CARBON	10K	5%	1/6W
R621	1-249-429-11	CARBON	10K	5%	1/6W
R622	1-249-429-11	CARBON	10K	5%	1/6W
R623	1-249-429-11	CARBON	10K	5%	1/6W
R624	1-249-429-11	CARBON	10K	5%	1/6W
R625	1-249-429-11	CARBON	10K	5%	1/6W
R626	1-249-437-11	CARBON	47K	5%	1/6W
R627	1-249-417-11	CARBON	1K	5%	1/6W
R628	1-249-433-11	CARBON	22K	5%	1/6W
R629	1-247-883-00	CARBON	150K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R631	1-249-429-11	CARBON	10K	5%	1/6W
R632	1-249-437-11	CARBON	47K	5%	1/6W
R633	1-249-429-11	CARBON	10K	5%	1/6W
R634	1-249-429-11	CARBON	10K	5%	1/6W
R635	1-249-437-11	CARBON	47K	5%	1/6W
R636	1-249-437-11	CARBON	47K	5%	1/6W
R637	1-249-437-11	CARBON	47K	5%	1/6W
R638	1-249-433-11	CARBON	22K	5%	1/6W
R639	1-249-429-11	CARBON	10K	5%	1/6W
R640	1-249-429-11	CARBON	10K	5%	1/6W
R641	1-247-887-00	CARBON	220K	5%	1/6W
R643	1-247-799-00	CARBON	47	5%	1/6W
R644	1-249-429-11	CARBON	10K	5%	1/6W
R645	1-247-873-00	CARBON	56K	5%	1/6W
R646	1-249-422-11	CARBON	2.7K	5%	1/6W
R647 ⚠	1-247-123-00	CARBON	470	5%	1/4W F
R648	1-249-429-11	CARBON	10K	5%	1/6W
R649	1-249-441-11	CARBON	100K	5%	1/6W
R650	1-249-429-11	CARBON	10K	5%	1/6W
R651	1-249-429-11	CARBON	10K	5%	1/6W
R652	1-249-429-11	CARBON	10K	5%	1/6W
R653	1-249-429-11	CARBON	10K	5%	1/6W
R654	1-249-422-11	CARBON	2.7K	5%	1/6W
R655	1-249-429-11	CARBON	10K	5%	1/6W
R656	1-249-441-11	(US,Canadian,E)...CARBON	100K	5%	1/6W
R657	1-249-417-11	CARBON	1K	5%	1/6W
R701	1-249-441-11	CARBON	100K	5%	1/6W
R702	1-249-429-11	CARBON	10K	5%	1/6W
R703	1-249-429-11	CARBON	10K	5%	1/6W
R704	1-249-429-11	CARBON	10K	5%	1/6W
R705	1-249-429-11	CARBON	10K	5%	1/6W
R706	1-249-437-11	CARBON	47K	5%	1/6W
R707	1-249-437-11	(AEP,G-AEP,UK)...CARBON	47K	5%	1/6W
R708	1-249-437-11	CARBON	47K	5%	1/6W
R709	1-249-437-11	(AEP,G-AEP,UK)...CARBON	47K	5%	1/6W
R710	1-249-437-11	CARBON	47K	5%	1/6W
R711	1-247-713-11	CARBON	1K	5%	1/4W
R712	1-249-405-11	CARBON	100	5%	1/6W
R713	1-249-429-11	CARBON	10K	5%	1/6W
R714	1-249-429-11	CARBON	10K	5%	1/6W
R715	1-249-429-11	CARBON	10K	5%	1/6W
R716	1-249-429-11	CARBON	10K	5%	1/6W
R717	1-249-429-11	CARBON	10K	5%	1/6W
R718	1-249-429-11	CARBON	10K	5%	1/6W
R719	1-249-429-11	CARBON	10K	5%	1/6W
R720	1-249-429-11	CARBON	10K	5%	1/6W
R721	1-249-429-11	CARBON	10K	5%	1/6W
R722	1-249-429-11	CARBON	10K	5%	1/6W
R723	1-249-429-11	CARBON	10K	5%	1/6W
R724	1-249-429-11	CARBON	10K	5%	1/6W
R725	1-249-429-11	CARBON	10K	5%	1/6W
R726	1-249-429-11	CARBON	10K	5%	1/6W
R727	1-249-429-11	CARBON	10K	5%	1/6W
R728	1-249-429-11	CARBON	10K	5%	1/6W
R729	1-249-429-11	CARBON	10K	5%	1/6W
R730	1-249-429-11	CARBON	10K	5%	1/6W
R801	1-249-441-11	CARBON	100K	5%	1/6W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R802	1-249-441-11	CARBON	100K	5%	1/6W
R803	1-249-441-11	CARBON	100K	5%	1/6W
R804	1-249-441-11	CARBON	100K	5%	1/6W
R806	1-247-859-00	CARBON	15K	5%	1/6W
R807	1-249-434-11	CARBON	27K	5%	1/6W
R809	1-249-432-11	CARBON	18K	5%	1/6W
R810	1-249-432-11	CARBON	18K	5%	1/6W
R811	1-249-425-11	CARBON	4.7K	5%	1/6W
R812	1-249-441-11	CARBON	100K	5%	1/6W
R813	1-249-435-11	CARBON	33K	5%	1/6W
R814	1-247-857-00	CARBON	12K	5%	1/6W
R815	1-247-853-00	CARBON	8.2K	5%	1/6W
R816	1-249-433-11	CARBON	22K	5%	1/6W
R817	1-249-435-11	CARBON	33K	5%	1/6W
R818	1-247-851-00	CARBON	6.8K	5%	1/6W
R820	1-249-417-11	CARBON	1K	5%	1/6W
R821	1-249-417-11	CARBON	1K	5%	1/6W
R822	1-249-405-11	CARBON	100	5%	1/6W
R823	1-249-429-11	CARBON	10K	5%	1/6W
R824	1-247-851-00	CARBON	6.8K	5%	1/6W
R825	1-249-405-11	CARBON	100	5%	1/6W
R828	1-247-852-00	CARBON	7.5K	5%	1/6W
R829	1-247-859-00	CARBON	15K	5%	1/6W
R851	1-249-417-11	CARBON	1K	5%	1/6W
R903	1-249-437-11	CARBON	47K	5%	1/6W
R906	1-247-859-00	CARBON	15K	5%	1/6W
R907	1-247-845-00	CARBON	3.9K	5%	1/6W
R908	1-247-813-00	CARBON	180	5%	1/6W
RT201	1-228-995-00	RES, ADJ, CARBON 22K			
RT202	1-228-995-00	RES, ADJ, CARBON 22K			
RT203	1-228-990-00	RES, ADJ, CARBON 1K			
RT204	1-228-994-00	RES, ADJ, CARBON 10K			
RT205	1-228-996-00	RES, ADJ, CARBON 47K			
RT301	1-230-682-11	RES, ADJ, CARBON 1M			
RT302	1-230-682-11	RES, ADJ, CARBON 1M			
RT303	1-228-996-00	RES, ADJ, CARBON 47K			
RT304	1-228-996-00	RES, ADJ, CARBON 47K			
RT401	1-228-998-00	RES, ADJ, CARBON 220K			
RT402	1-228-996-00	(US,Canadian,E)...RES, ADJ, CARBON 47K			
RT801	1-228-990-00	RES, ADJ, CARBON 1K			
S601	1-554-303-21	SWITCH, KEY BOARD (1)			
S602	1-554-303-21	SWITCH, KEY BOARD (2)			
S603	1-554-303-21	SWITCH, KEY BOARD (3)			
S604	1-554-303-21	SWITCH, KEY BOARD (4)			
S605	1-554-303-21	SWITCH, KEY BOARD (5)			
S606	1-554-303-21	SWITCH, KEY BOARD (6)			
S607	1-554-303-21	SWITCH, KEY BOARD (7)			
S608	1-554-303-21	SWITCH, KEY BOARD (8)			
S609	1-554-303-21	SWITCH, KEY BOARD (9)			
S610	1-554-303-21	SWITCH, KEY BOARD (10)			
S611	1-554-303-21	SWITCH, KEY BOARD (MEMORY SET)			
S612	1-554-303-21	SWITCH, KEY BOARD (SCAN READ)			
S613	1-554-303-21	SWITCH, KEY BOARD (MUTING/MODE)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S614	1-554-303-21	SWITCH, KEY BOARD (CAL TONE)
S615	1-554-303-21	SWITCH, KEY BOARD (US,Canadian,E:FM/AM) (AEP,G-AEP,UK:FM/MW/LW)
S616	1-554-303-21	SWITCH, KEY BOARD (IF BAND)
S617	1-554-303-21	SWITCH, KEY BOARD (TUNING MODE)
S618	1-554-303-21	SWITCH, KEY BOARD (TUNING -)
S619	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S852	1-570-600-11	SWITCH, ROTARY (PROGRAM)
S853	1-554-165-00	(US,Canadian,E)...SWITCH, SLIDE (9K/10K SELECTION)
TH201	1-800-199-00	THERMISTOR
TH202	1-800-378-00	THERMISTOR S-150
TH203	1-800-195-00	TH DIRECT-HEATING DISK S-250
TH204	1-800-195-00	TH DIRECT-HEATING DISK S-250
TM851	1-536-634-00	(US,Canadian,E)...TERMINAL BOARD (ANTENNA)
TM851	1-536-851-21	(AEP,G-AEP,UK)....TERMINAL BOARD (ANTENNA)
TP101	*1-535-115-00	TERMINAL
TP201	*1-560-060-00	PIN, CONNECTOR 2P
TP202	*1-560-060-00	PIN, CONNECTOR 2P
TP851	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P
TP852	*1-535-118-00	TERMINAL
TP853	*1-535-115-00	TERMINAL
TP854	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P
X501	1-567-125-00	VIBRATOR, CRYSTAL (7.2MHz)

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-417-090-00	(AEP,G-AEP,UK).... MATCHING TRANSFORMER, ANTENNA
1-417-102-21	(US,Canadian,E)... MATCHING TRANSFORMER, ANTENNA
1-501-351-21	ANTENNA, FEEDER
1-501-353-11	ANTENNA, LOOP
1-558-543-11	CORD, CONNECTION
3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	(US)....INSTRUCTION
3-765-110-11	MANUAL, INSTRUCTION
4-858-078-00	SHEET, PROTECTION
4-915-426-01	CUSHION
4-908-060-01	(E).....INDIVIDUAL CARTON
4-908-060-41	(US,Canadian,AEP,G-AEP,UK) ....INDIVIDUAL CARTON

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TROUBLE CHECKS

ON OPERATION

No audio output	• Check the connections to the amplifier. • Check the setting of the amplifier input selector, volume control and power switch. • Check the antenna connection.
Tuning cannot be done correctly when the station preset button is pressed.	• Memorize the frequency correctly. • Set the PROGRAM switch to OFF.
The tuning buttons do not operate.	• Set the PROGRAM switch to OFF. • Keep the speaker cords, connecting cords and power cords away from the AM loop antenna (or antenna lead-in) at the rear. • Keep the connecting cords away from transformers or motors, and at least 3 m (10 ft) from TV units and fluorescent lights.
Ignition noise	• Install the outdoor antenna away from heavy trafic. • Use a shielded or coaxial lead-in for the antenna.
Electrostatic charge	• Ground the tuner.

ON DISPLAY

Signal indicator reading is unstable.	• Tune in the station accurately. • Adjust the antenna.
STEREO indicator flickers.	• Tune in the station accurately. • When the signal is weak, adjust the antenna or connected an external FM antenna. • Press the MUTING/MODE button so that the MUTING indicator lights. • Adjust the antenna.
Severe hum or noise	• Ground the tuner. • Avoid long horizontal runs of antenna lead. • Adjust the antenna.

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Audio Group

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